



1000284

**USEPA DELISTING PETITION
FOR
KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS**

**APPENDIX A
TO
ADJUSTED STANDARD PETITION**

ATTACHMENT 1

August 2, 1993

ANNUAL REPORT
RETENTION RESERVOIR REMEDIATION
KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

**ANNUAL REPORT
RETENTION RESERVOIR REMEDIATION
KEystone STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS**

MARCH 31, 1993

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**ANNUAL REPORT
RETENTION RESERVOIR REMEDIATION**

**KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS**

1.0 INTRODUCTION

This Annual Report documents the *in situ* treatment phase of the Step 1 remediation of the hazardous waste management units (HWMUs) located at the Keystone Steel & Wire Company (Keystone) facility in Bartonville, Illinois. Under Step 1 of the Resource Conservation and Recovery Act (RCRA) closure, Keystone is conducting a full-scale *in situ* treatment demonstration and delisting program, followed by the removal and disposal of the delisted waste as a special waste to achieve clean closure of the on-site Retention Reservoir. An integral part of the *in situ* treatment process involved the implementation of a performance sampling and analytical characterization program to confirm that the treatment contractor is in compliance with required treatment guidelines. Photographic documentation of the Retention Reservoir prior to treatment and site security are presented in Appendix F (Photos 1 - 9).

Environmental Resources Management-North Central, Inc. (ERM-North Central) of St. Charles, Missouri, was retained by Keystone to conduct performance sampling and coordinate all on-site activities. As necessary, supplemental manpower was provided by Peoria Disposal Company (PDC) of Peoria, Illinois. All treatment and performance sampling/analysis activities were performed in accordance with the Revised Phase 2 Closure Plan (Closure Plan) submitted by Keystone on June 15, 1992 and an Illinois Environmental Protection Agency (IEPA) approval letter, dated September 30, 1992. This summary report covers the on-site treatment and performance sampling activities conducted between July 15, 1992 and February 25, 1993 and is being submitted in compliance with Subsection 3 of the IEPA's September 30, 1992 approval letter.

2.0 TREATMENT APPROACH

2.1 Treatment Technology Used

The process used in treating the sediments and bottom materials in the Retention Reservoir was simultaneous stabilization with quicklime and solidification with #1 Portland cement. All of the treatment activities were accomplished in place within the Retention Reservoir without the necessity for any on-shore treatment. A 50/50 blend, by weight, of quicklime and #1 Portland cement reagents was pneumatically added to the Retention Reservoir materials in a dry form. As the reagents and sediments were blended, water was added as needed to improve mixing and to assist in the completion of chemical reactions.

2.2 Selected Contractor and Equipment

Through a competitive bidding process, ITEX Enterprises, Inc. (ITEX) of Dallas, Texas, was selected by Keystone in June 1992 to serve as a remediation contractor to treat materials in the Retention Reservoir. The contract documents submitted to the bidders are included as Appendix J of the Closure Plan. ITEX was selected on the basis of past experience with *in situ* treatment, the completeness of the technical approach in their proposal, and the special mixing equipment proposed in their bid. The primary mixing equipment used by ITEX consisted of a hydraulically driven rotating head device mounted on the end of a long stick backhoe. Supplemental information describing the ITEX system is included in Appendix A. Photographic documentation of mixing equipment and chemical feeding operation used on site is presented in Appendix F (Photos 10 - 12).

2.3 Site Grid System

As described in Appendix M of the Closure Plan, a site grid system was established over the Retention Reservoir to maintain accurate horizontal control throughout the project. Prior to initiating treatment activities, Clark Engineers MW, Inc. (Clark Engineers), an Illinois Registered Land Surveyor, established an overall 20-foot control grid system with reference stakes during late June 1992. The 20-foot grid system was subsequently subdivided into 5-foot intervals to facilitate performance sampling as specified in Appendix M of the Closure Plan. A copy of the site map that contains the grid system is included as Appendix B. Photographic documentation of efforts associated with establishing the grid system is presented in Appendix F (Photos 13 and 14).

3.0 PERFORMANCE SAMPLING AND ANALYSIS

The performance sampling program was conducted to evaluate the effectiveness of the *in situ* treatment and to confirm that adequate treatment was achieved at the site. As previously indicated, this work was performed in accordance with the sampling plan presented in Appendix M of the Closure Plan. ERM-North Central initially measured sediment depths, calculated material volumes, and delineated 100-cubic-yard lots. Five samples (each representing 20 cubic yards) were obtained from each 100-cubic-yard lot and analyzed for the indicator parameters pH and alkalinity. In addition, one sample of the five samples was analyzed for the Toxicity Characteristics Leaching Procedure (TCLP) metals cadmium, chromium, lead, and zinc. Photographic documentation of performance sampling activities is presented in Appendix F (Photos 15 - 18).

All of the samples were randomly obtained by using the 5-foot grid sections to select sample points within each 100-cubic-yard lot. The collected samples were transported to the *on-site* laboratory facilities with properly completed chain-of-custody forms. Photographic documentation of the site trailer is presented in Appendix F (Photos 19 - 21).

Daily Analytical Laboratories (Daily) of Peoria, Illinois set up the laboratory trailer at the site and was responsible for providing personnel to perform on-site analysis throughout the treatment and performance sampling phase of the Step 1 remediation. The analyses performed in the trailer included pH, alkalinity, and TCLP metal extraction procedures. Filtered TCLP extracts and the remaining portion of samples being run for TCLP metals were transported with chain-of-custody forms to Daily's laboratory facilities in Peoria, Illinois, for final analysis. All of the remaining samples were stored in the laboratory trailer. All analyses were performed in accordance with Appendix M of the Closure Plan.

4.0 PERFORMANCE TRIALS

4.1 Purpose

ITEX conducted preliminary *in situ* pilot tests during the last two weeks of July 1992 to establish a starting reagent dosage level and to obtain initial information on the required ratio of quicklime to #1 Portland cement. Subsequent to pilot testing, ITEX proceeded to conduct *in situ*, full-scale treatment runs as designated performance trials. These trial runs, which were conducted by ITEX between July 31 and September 3, 1992, were performed to optimize chemical dosage levels and mixing techniques to achieve adequate treatment. Photographic documentation of treatment activities during performance trials is presented in Appendix F (Photos 22 - 25).

4.2 Problems Encountered

The experience gained during the performance trials and the resulting analytical data results confirmed that tighter controls had to be imposed on the consistency of chemical reagent blends, chemical feed rate techniques, methods to determine total quantity of chemicals added, and blending techniques during sediment treatment. In response to these problems, ITEX implemented a relatively detailed Quality Assurance/Quality

Control Procedure Plan, which is included as Appendix C. This plan described the following:

- o Measures to be taken to ensure correct additive strength;
- o Premixing requirements for sediment to ensure uniformity prior to treatment;
- o Sediment volume measurements to obtain an accurate estimate of the quantity of sediment being treated;
- o Collection of preliminary samples to determine the chemical characteristics of the sediments prior to treatment in order to calculate the required reagent dosage levels;
- o Improved methods to control reagent injection rate; and
- o Improved mixing techniques during treatment.

4.3 Analytical Results from Trials

As required by Appendix L of the Closure Plan, Daily's staff analyzed samples for the indicator parameters alkalinity, pH, and TCLP metals cadmium, chromium, lead, and zinc in the on-site laboratory. Alkalinity and pH analyses were run on each collected sample representing 20 cubic yards of treated materials. Typically, TCLP metal analyses were conducted on one of every five samples (representing 100 yards of treated material) with additional TCLP lead analyses conducted on selected samples.

4.3.1 Toxicity Characteristic Leaching Procedure Lead Results

A plot of alkalinity versus TCLP lead is included as Figure 1. In addition, the delisting requirement of 0.218 mg/l for TCLP lead from Table I-3, Appendix I, of the Closure Plan is also indicated on Figure 1. All of the analytical data collected during the performance trials are summarized in Table 1. Approximately 370 alkalinity and 100 TCLP lead results were generated during the performance trials. These data confirm that acceptable treatment for lead to achieve delisting is limited to an alkalinity range. Any alkalinity results above or below that range decreases the probability of complying with delisting requirements. These data also made it clear that ITEX's Quality Assurance/Quality Control Procedures Plan had to be carefully implemented to achieve a relatively narrow range of residual alkalinity after treatment.

4.3.2 Development of Acceptable Alkalinity Treatment Ranges

As illustrated on Figure 1, the probability of achieving acceptable treatment is essentially 100 percent within an alkalinity range from 125,000 to 185,000 mg/kg. As the range expands in either direction, the probability of achieving acceptable TCLP lead results decreases. However, the treatment may still be acceptable if additional assurance is obtained that the material is adequately treated. Therefore, the results shown in Figure 1 were further analyzed to establish two alkalinity ranges that would be acceptable: (1) a range that requires only alkalinity as an indicator parameter to confirm adequate treatment, and (2) a wider range that requires both alkalinity and TCLP lead as indicator parameters to confirm adequate treatment. These two alkalinity ranges have been designated as an "acceptable range" and a "conditionally acceptable range", respectively.

The performance trial results shown in Table 1 and Figure 1 were used to determine the possibility of exceeding the delisting requirement for lead within each 10,000 mg/kg alkalinity interval over the range of data extending from 0 to 260,000 mg/kg. Percentile failure values for each 10,000 mg/kg alkalinity interval were plotted against the

midpoint of each interval as shown on Figure 2. A best-fit line was constructed across the entire alkalinity range (Figure 2), and then transferred to a probability-of-occurrence plot (Figure 3) to obtain a better definition of the probability of exceeding the delisting requirements for lead in the lower percentile failure zones. Based on the data shown on Figure 3, alkalinites corresponding to a 95 percent minimum compliance probability range from 130,000 to 192,000 mg/kg, which is designated on Figure 1 as the "acceptable range". Treated materials with residual alkalinites within this range require only alkalinity as an indicator of acceptable treatment and have a 95 to 100 percent probability of compliance with delisting requirements based only on alkalinity. Alkalinites with a 70 percent minimum compliance probability (based only on alkalinity) range from 115,000 to 215,000 mg/kg and are designated on Figure 1 as within the "conditionally acceptable range." Samples with alkalinity levels between 115,000 and 130,000 mg/kg and between 192,000 and 215,000 mg/kg must also have TCLP lead results below delisting requirements to be considered acceptably treated. However, samples within the two narrow conditionally acceptable ranges (i.e., 115,000 to 130,000 mg/kg and 192,000 to 215,000 mg/kg) have a 70 to 95 percent probability of compliance with delisting requirements based only on alkalinity. If TCLP lead results are also acceptable, these samples have essentially a 100% probability of compliance with delisting requirements.

4.3.3 Other Toxicity Characteristic Leaching Procedure Indicator Metal Results

According to Table I-3 of Appendix I of the Closure Plan, TCLP delisting requirements are 0.073 mg/l for cadmium, 1.45 mg/l for chromium, and 72.5 mg/l for zinc. As illustrated on Table 1, none of the TCLP concentrations for cadmium, chromium, and zinc exceeded <0.005 mg/l, 0.029 mg/l, and 0.93 mg/l, respectively, in the samples with residual alkalinity within the conditionally acceptable range. Plots of TCLP metal concentrations for cadmium, chromium, and zinc are included as Figures 4, 5, and 6, respectively.

4.3.4 pH Results

The pH measurements obtained during the performance trials are summarized in Table 3 and a plot of pH versus alkalinity is presented in Figure 7. As indicated by the results, the pH measurements were relatively insensitive to the quantity of added reagents and residual alkalinity present. These data also suggest that pH is not an effective indicator parameter.

5.0 TREATMENT RESULTS

ITEX implemented the Quality Assurance/Quality Control Procedure Plan and the acceptable and conditionally acceptable alkalinity ranges in three trial runs in mid-September 1992. ITEX, subsequently began to treat materials on September 22, 1992. The improved procedures for remixing and blending relatively large quantities of materials (i.e., up to 500 cubic yards) plus the implementation of preblending, lateral mixing, and final blending proved successful. By using these techniques, the variability of alkalinity from individual grab samples was effectively controlled. By February 25, 1993, performance sampling confirmed that all of the materials in the Retention Reservoir were satisfactorily treated. Photographic documentation of activities during acceptable treatment is presented in Appendix F (Photos 26 - 35).

5.1 Analytical Data

The indicator parameter results for alkalinity and the TCLP metals cadmium, chromium, lead, and zinc for all of the treated materials in the Retention Reservoir are summarized in Table 2. Statistical plots of alkalinity data previously submitted to the IEPA in Monthly Status Reports are presented in Figures 1 through 80 in Appendix D. These plots were developed as acceptable treatment progressed after September 22, 1992, and

in some instances, do not match the current data because of: (1) the inclusion of initial failed points that were subsequently remixed/retreated/resampled; and (2) the disturbance and retreatment of previously accepted materials.

Therefore, a statistical plot was prepared to show the overall variability of individual grab sample alkalinity levels and the adherence of the treatment techniques to the associated guidelines. This statistical plot (Figure 8) shows that the alkalinity of 90 percent or 90 of 100 grab samples obtained from the Retention Reservoir can be expected to be within the acceptable range. The plot also shows that the alkalinity of essentially 100 percent of all of the grab samples should be within the conditionally acceptable range. None of the alkalinity values shown in Table 2 fall outside the conditionally acceptable range.

In addition, none of the TCLP metal values exceeded the delisting requirements for any of the four indicator metals (i.e., 0.073 mg/l for cadmium, 1.45 mg/l for chromium, 0.218 mg/l for lead, and 72.5 mg/l for zinc). The maximum TCLP metal values indicated in Table 2 for cadmium, chromium, lead, and zinc are 0.023 mg/l, 0.054 mg/l, 0.180 and 2.209 mg/l, respectively. All of the TCLP values were well below the delisting requirements for all four indicator metals. The pH measurements taken during the acceptable treatment period are summarized in Table 4 and plotted against alkalinity in Figure 9. Like the Performance Trial results, pH was again insensitive to chemical dosage levels and residual alkalinity.

5.2 Volume of Treated Materials

The total volume of materials treated in the Retention Reservoir was 34,687 cubic yards. This volume is based on depth measurements made by Clark Engineers and ERM-North Central and includes sediments originally present in the reservoir and materials from the bottom, finger levees, and perimeter levee. The measurements of total volume was taken after the premixing efforts, in which bottom and levee materials intended for treatment were entrained in the bulk of the sediment.

6.0 WASTE GENERATED DURING TREATMENT

6.1 Hazardous Waste

No hazardous wastes were generated during the *in situ* treatment phase of the project. In addition, no materials were removed from the Retention Reservoir, returned to the reservoir, or deposited in any other location on or off site.

All of the other hazardous wastes generated by Keystone in the normal pursuit of manufacturing products in 1992 have been properly reported in the Annual Hazardous Waste Report submitted by Keystone to the IEPA on February 28, 1993.

6.2 Special Waste

Special wastes such as gloves, Tyvek coveralls, overboots, disposable sampling equipment, and sampling supplies generated during the treatment phase of the Step 1 remediation are being stored in a 20-yard, lined transport container supplied by PDC within a secure area at the Retention Reservoir. Photographic documentation of the special waste container is presented in Appendix F (Photo 36).

6.3 Refuse

Refuse generated during the *in situ* treatment process was segregated from special waste and is being stored in a separate transport container on site (one 5-yard container). This container is currently located in a secure area at the Retention Reservoir. Photographic documentation of the refuse container is presented in Appendix F (Photo 36).

7.0 OFF-SITE WASTE TRANSPORT/DISPOSAL

7.1 Hazardous Waste

No hazardous waste was produced, transported, or disposed of on or off site during any activity associated with the Step 1 remediation of the Retention Reservoir. The transport and disposal of other hazardous wastes generated by Keystone from normal manufacturing activities have been reported in the Annual Hazardous Waste Report submitted by Keystone to the IEPA on February 28, 1993.

7.2 Special Waste

No special wastes have been transported or disposed of off site. The special waste generated to date (i.e., one 20-yard container) will be transported and disposed of in PDC's permitted RCRA landfill facilities located at Pottstown, Illinois, upon completion of delisting sampling efforts.

7.3 Refuse

Refuse generated during treatment (i.e., one 5-yard container) will be transported and disposed of by PDC as refuse.

8.0 WASTE MANIFESTING

No wastes have been manifested off site during the treatment activities or any other activities related to the project.

9.0 GROUND WATER MONITORING

All ground water data for 1992 are presented in four quarterly technical memorandum:

- o Quarterly Ground Water Technical Memorandum for February 1992 (submitted April 22, 1992);
- o Quarterly Ground Water Technical Memorandum for May 1992 (submitted July 17, 1992);
- o Hazardous Waste Management Units Quarterly Ground Water Technical Memorandums for August 1992 (submitted December 7, 1992); and
- o Hazardous Waste Management Units Quarterly Ground Water Technical Memorandum for November 1992 (submitted January 19, 1993).

Each report presents a detailed discussion of the data collected during that quarterly sampling event, and any other ground water related data collected subsequent to the last report (i.e., boring logs and well completion records for new monitoring wells). All ground water samples were collected, analyzed, and the data evaluated in accordance with the sampling and analysis plan presented in Section 10 of the June 15, 1992 Phase 2 Closure Plan as modified by the July 10, 1992 memorandum by WWES and the September 30, 1992 approval letter from the IEPA. The approved Phase 2 Closure Plan stated that historical ground water data would be used to develop baseline cases against which the overall effect of the clean-up would be evaluated. Two baseline (background) cases were developed using data from the wells T-15 and W-7 (August 1992 quarterly report).

In summary, the approved Phase 2 Closure Plan analysis and data evaluation specifies:

1. The use of SW-846 methods to analyze for dissolved cadmium, chromium, lead, iron, and manganese, and that determinations will be made of the following field parameters: pH, specific conductance, and temperature.

2. For wells W-1D, W-2D, W-3D, W-4D, W-5D, and W-13 the results for cadmium, chromium, and lead will be compared to Class 1 ground water standards and baseline (well T-15) levels.
3. For wells W-1, W-2, W-3, W-4, W-5, W-9, W-10, W-11, W-12, W-14, W-15, W-16, W-17, and W-18 the results for cadmium, chromium, and lead will be compared to Class II ground water standards and baseline (well W-7) levels.
4. All wells will be sampled quarterly for manganese through remediation and annually thereafter. Trend analyses will be performed for each well to determine whether an increasing or decreasing trend (or no trends) is occurring during remediation.
5. For wells W-1, W-2, W-3, W-4, W-5, W-9, W-10, W-11, W-12, W-14, W-15, W-16, W-17, and W-18 the results for the iron will be evaluated using the same procedures as for manganese (see item 4).
6. For wells W-1D, W-2D, W-3D, W-4D, W-5D, and W-13 the results will be compared to the Class I ground water standard and baseline levels (well T-15) in addition to trend analysis.
7. Baseline levels will be based on the upper 95 percent confidence limit for the mean concentration of each parameter from wells T-15 and W-7.
8. To evaluate iron and manganese trends, the time-series plots will be produced quarterly for each parameter on a well-by-well basis, and will include a graphical comparison with baseline well trends.

9. An annual summary evaluation will be provided that will include a Mann-Kendall test, or more appropriate test, for trend significance for each parameter on a well-by-well basis for data generated during the previous sampling year.

This statistical approach is designed to evaluate ground water conditions near the HWMUs prior to, during, and after remediation activities. It will not be possible to evaluate trends of iron and manganese prior to remediation of the Retention Reservoir, since the remediation is in progress and adequate data are not available. Because data from four consecutive quarterly sampling events are required to conduct the annual summary evaluation and sampling under the approved sampling and analysis plan stated in August 1992, the Mann-Kendall test for trend significance cannot be performed. These tests will be included in the annual report for 1993.

10.0 CHRONOLOGICAL SUMMARY OF ACTIVITIES

A chronological summary of remediation activities from the beginning of on-site efforts to the present is provided in Table 5.

11.0 SCHEDULE

A revised schedule for the Step 1 remediation activities is included as Figure 10. This schedule reflects the length of time that was required for the treatment of the materials in the Retention Reservoir and the schedule milestones included in the November 20, 1992 draft Consent Order.

Since the treatment of the Retention Reservoir materials was completed on February 25, 1993, Keystone is in compliance with the Consent Order milestone of May 1, 1993 for completion of *in situ* treatment. The delisting sampling of the treated materials is anticipated to start in mid-April, weather permitting. If that start date can be achieved,

the Step 1 demonstration project will remain ahead of the required schedule in the draft Consent Order.

12.0 CLOSURE COSTS

Closure cost estimates included in Tables 12-1 through 12-13 of the Closure Plan have been revised to reflect changes in unit costs experienced during the Step 1 demonstration project. These changes were made in accordance with Condition 3 of the September 30, 1992 IEPA Closure Plan approval letter. The revised closure cost tables are included as Appendix E of this report. In addition, an adjustment for inflation using the Implicit Price Deflator for the years 1991 and 1992 is also included in Appendix E. The total costs for all six remediation steps, after adjustment for inflation, are \$8,046,000 if treated materials are disposed of as a special waste and \$26,668,000 if delisting is unsuccessful and the treated materials are disposed of as a hazardous waste.

13.0 SUMMARY

The treatment of all material in the Retention Reservoir was completed on February 28, 1992. The performance sampling and analytical results confirmed that all materials were adequately treated and are expected to meet delisting requirements. The project is currently ahead of the schedule milestones in the draft Consent Order and will remain ahead of schedule if weather conditions permit delisting sampling to begin in mid-April 1993.

TABLE 1
RETENTION RESERVOIR REMEDIATION
SUMMARY OF PERFORMANCE TRIALS
KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

(Page 1 of 31)

100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
a	E11(18)8/4A	31-Jul	04-Aug	168				
a	E11(21)8/4A	31-Jul	04-Aug	169				
a	F11(6)8/4A	31-Jul	04-Aug	202				
a	F11(10)8/4A*	31-Jul	04-Aug	211	<0.005	0.018	<0.02	0.043
a	F11(13)8/4A	31-Jul	04-Aug	130			0.02	
b	D11(13)8/4A	31-Jul	04-Aug	126			<0.02	

⁽¹⁾ Sample number designation:

Example: F11(10)8/4A*

F11 - Cell number
 (10) - Subcell number
 8/4 - Sample date
 A - Performance sample
 * - TCLP analysis performed for Cd, Cr, Pb, and Zn

- ⁽²⁾ This table is organized according to lot numbers. Materials in Lots "a" through "dn" in this table were inadequately treated during performance trials and, therefore, have been given new lot designations and reported in Table 2.
- ⁽³⁾ Sample points located too close to a treatment boundary were not sampled.
- ⁽⁴⁾ Performance trials began on 7/31/92 and were completed on 9/8/92.

TABLE 1
(Continued)

(Page 2 of 31)

100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
b	D11(17)8/4A*	31-Jul	04-Aug	60.1	<0.005	1.3	20.4	16.8
b	D11(9)8/4A	31-Jul	04-Aug	122			<0.02	
b	E11(2)8/4A	31-Jul	04-Aug	150				
b	E11(7)8/4A	31-Jul	04-Aug	121			0.85	
c	D12(4)8/4A	31-Jul	04-Aug	177			0.075	
c	D12(19)8/4A	31-Jul	04-Aug	192				
c	D12(2)8/4A	31-Jul	04-Aug	98.9			0.54	
c	D11(11)8/4A*	31-Jul	04-Aug	30	<0.005	<0.01	3.42	6.71
c	D11(16)8/4A	31-Jul	04-Aug	159				
d	D14(1)8/6A	03-Aug	06-Aug	227			<0.02	
d	D15(13)8/6A	03-Aug	06-Aug	77			5.8	
d	D14(12)8/6A	03-Aug	06-Aug	189				
d	D14(10)8/6A*	03-Aug	06-Aug	170	<0.005	0.01	<0.02	<0.02
d	D15(21)8/6A	03-Aug	06-Aug	143			<0.02	
e	D13(1)8/6A	03-Aug	06-Aug	175				
e	D13(10)8/6A	03-Aug	06-Aug	212				
e	D13(5)8/6A	03-Aug	06-Aug	124			0.4	
e	D13(2)8/6A*	03-Aug	06-Aug	178	<0.005	0.01	<0.02	0.03
e	D14(17)8/6A	03-Aug	06-Aug	216				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
f	D16(14)8/6A	03-Aug	06-Aug	178				
f	D15(2)8/6A	03-Aug	06-Aug	118			0.03	
f	D16(17)8/6A	03-Aug	06-Aug	160				
f	D16(12)8/6A*	03-Aug	06-Aug	157	<0.005	0.02	<0.02	<0.02
f	D16(9)8/6A	03-Aug	06-Aug	166				
g	D17(16)8/6A	03-Aug	06-Aug	123			0.56	
g	D17(11)8/6A	03-Aug	06-Aug	110			0.66	
g	D17(3)8/6A	03-Aug	06-Aug	143			<0.02	
g	D17(6)8/6A	03-Aug	06-Aug	123			0.82	
g	D17(5)8/6A*	03-Aug	06-Aug	190	<0.005	<0.01	0.49	<0.02
g - R	D17(5)8/27A*	25-Aug	28-Aug	190	<0.005	<0.01	0.04	0.04
g - R	D17(10)8/28A	25-Aug	28-Aug	188				
h	D15(24)8/6A*	03-Aug	06-Aug	165	<0.005	<0.01	<0.02	<0.02
i	D18(8)8/10A	05-Aug	10-Aug	76			9.8	
i	D18(11)8/10A	05-Aug	10-Aug	90	<0.005	0.06	9	12
i	D18(14)8/10A	05-Aug	10-Aug	89			6.3	
i	D18(4)8/10A	05-Aug	10-Aug	90			9.6	
i	C22(19)8/10A	05-Aug	10-Aug	146				
i - R	D18(9)8/28A	05-Aug	28-Aug	197				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
i - R	D18(12)8/28A*	25-Aug	28-Aug	128	<0.005	<0.01	<0.02	0.045
i - R	D18(14)8/28A*	25-Aug	28-Aug	196	<0.005	0.06	6.7	12
i - R	D18(3)8/28A	25-Aug	28-Aug	88.6				
j	C22(3)8/10A*	05-Aug	10-Aug	136	<0.005	<0.01	<0.02	<0.02
j	C22(5)8/10A	05-Aug	10-Aug	195				
j	C22(10)8/10A	05-Aug	10-Aug	193				
j	C22(11)8/10A	05-Aug	10-Aug	169				
j	C23(13)8/10A	05-Aug	10-Aug	180				
k	D22(4)8/10A*	05-Aug	10-Aug	138	<0.005	<0.01	<0.02	0.08
k	D22(9)8/10A*	05-Aug	10-Aug	98.6			0.08	
k	D22(11)8/10A*	05-Aug	10-Aug	213				
k	D22(15)8/10A*	05-Aug	10-Aug	198				
k	D22(16)8/10A*	05-Aug	10-Aug	203				
l	D23(1)8/10A	05-Aug	10-Aug	191				
l	D23(3)8/10A	05-Aug	10-Aug	205				
l	D23(4)8/10A	05-Aug	10-Aug	192				
l	D23(13)8/10A*	05-Aug	10-Aug	157	<0.005	<0.01	<0.02	<0.01
l	D23(14)8/10A	05-Aug	10-Aug	202				
m	C23(3)8/11A	05-Aug	11-Aug	193				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
m	C23(7)8/11A	05-Aug	11-Aug	178				
m	C24(10)8/11A	05-Aug	11-Aug	174				
m	C24(17)8/11A	05-Aug	11-Aug	221			<0.02	
m	C24(19)8/11A*	05-Aug	11-Aug	133	<0.005	<0.01	0.04	0.4
n	D24(2)8/11A*	05-Aug	11-Aug	124	<0.005	<0.01	0.02	0.93
n	D24(8)8/11A	05-Aug	11-Aug	204				
n	D24(10)8/11A	05-Aug	11-Aug	217				
n	D24(11)	05-Aug						
n	D24(12)	05-Aug						
o	C24(1)8/11A	05-Aug	11-Aug	210				
o	C24(3)8/11A	05-Aug	11-Aug	3.37			15	
o	C25(7)8/11A	05-Aug	11-Aug	207				
o	C25(10)8/11A	05-Aug	11-Aug	230			<0.02	
o	C25(13)8/11A*	05-Aug	11-Aug	224	<0.005	<0.01	<0.02	<0.02
p	D25(1)8/11A*	05-Aug	11-Aug	5.76	<0.005	0.02	5.3	14
p	D25(3)8/11A	05-Aug	11-Aug	229			<0.02	
p	D25(4)8/11A	05-Aug	11-Aug	247			<0.02	
p	D25(11)8/11A	05-Aug	11-Aug	218				
p	D25(16)8/11A	05-Aug	11-Aug	218				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
q	D26(18)8/11A	05-Aug	11-Aug	257			0.79	
q	D26(19)8/11A	05-Aug	11-Aug	241			<0.02	
q	D26(20)8/11A*	05-Aug	11-Aug	210	<0.005	0.02	<0.02	0.02
q	D26(24)8/11A	05-Aug	11-Aug	248			<0.02	
q	D26(25)8/11A	05-Aug	11-Aug	241			<0.02	
q - R	D26(18)8/25A	25-Aug	28-Aug	159	<0.005	<0.01	<0.02	0.028
r	D26(2)8/11A	05-Aug	11-Aug	25.2			6.4	
r	D26(3)8/11A	05-Aug	11-Aug	187				
r	D26(5)8/11A	05-Aug	11-Aug	196				
r	D27(7)8/11A	06-Aug	11-Aug	58.36			<0.02	
r	D27(11)8/11A*	06-Aug	11-Aug	159	<0.005	0.02	<0.02	0.02
s	C26(7)8/11A*	05-Aug	11-Aug	209	<0.005	<0.01	<0.02	0.05
s	C26(5)8/11A	05-Aug	11-Aug	258			<0.02	
s	C26(13)8/11A	05-Aug	11-Aug	225			<0.02	
s	C26(14)8/11A	05-Aug	11-Aug	227			<0.02	
s	C26(10)8/11A	05-Aug	11-Aug	203				
t	C26(3)8/11A	05-Aug	11-Aug	171				
t	C27(6)8/11A	06-Aug	11-Aug	149				
t	C27(7)8/11A	06-Aug	11-Aug	144				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
t	C27(9)8/11A*	06-Aug	11-Aug	146	<0.005	<0.01	<0.02	<0.02
t	C27(11)8/11A	06-Aug	11-Aug	159				
u	C27(15)8/11A	06-Aug	11-Aug	133			<0.02	
u	C27(20)8/11A	06-Aug	11-Aug	141				
u	D27(25)8/11A	06-Aug	11-Aug	126			<0.02	
u	D27(21)8/11A*	06-Aug	11-Aug	206	<0.005	0.01	<0.02	<0.02
u	D27(28)8/11A	06-Aug	11-Aug	7.5			8.2	
v	C28(3)8/13A	10-Aug	13-Aug	197				
v	C28(5)8/13A	10-Aug	13-Aug	213				
v	C28(7)8/13A*	10-Aug	13-Aug	181	<0.005	0.02	<0.02	0.05
v	C28(10)8/13A	10-Aug	13-Aug	199				
v	C28(13)8/13A	10-Aug	13-Aug	216				
w	D28(2)8/13A*	10-Aug	13-Aug	225	<.005	0.02	<0.02	0.04
w	D28(3)8/13A	10-Aug	13-Aug	235				
w	D28(4)8/13A	10-Aug	13-Aug	203				
w	D28(5)8/13A	10-Aug	13-Aug	226				
w	D28(12)8/13A	10-Aug	13-Aug	225				
x	D29(17)8/13A*	10-Aug	13-Aug	72.6	<.005	<0.01	3.2	9.3
x	D29(18)8/13A	10-Aug	13-Aug	170				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
x	D29(19)8/13A	10-Aug	13-Aug	163				
x	D29(24)8/13A	10-Aug	13-Aug	134				
x	D28(15)8/13A	10-Aug	13-Aug	170				
y	D29(1)8/13A	10-Aug	13-Aug	202				
y	D29(3)8/13A*	10-Aug	13-Aug	93.6	0.006	2.5	38	15
y	D29(6)8/13A	10-Aug	13-Aug	155				
z	C29(2)8/13A*	10-Aug	13-Aug	159	<.005	<0.01	<0.02	0.02
z	C29(3)8/13A	10-Aug	13-Aug	171				
z	C29(7)8/13A	10-Aug	13-Aug	148				
z	C29(10)8/13A	10-Aug	13-Aug	177				
z	C29(13)8/13A	10-Aug	13-Aug	143				
aa	C30(13)8/14A	11-Aug	14-Aug	166				
aa	C30(11)8/14A	11-Aug	14-Aug	94				
aa	C30(9)8/14A*	11-Aug	14-Aug	69.5	<0.005	0.05	7.1	16
aa	C30(16)8/14A	11-Aug	14-Aug	119				
aa	C30(10)8/14A	11-Aug	14-Aug	128				
ab	D30(3)8/14A	11-Aug	14-Aug	153				
ab	D30(4)8/14A	11-Aug	14-Aug	177				
ab	D30(8)8/14A	11-Aug	14-Aug	174				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
ab	D30(10)8/14A	11-Aug	14-Aug	110				
ab	D30(11)8/14A*	11-Aug	14-Aug	102	<0.005	<0.01	0.21	2.9
ac	E30(2)8/14A	11-Aug	14-Aug	118				
ac	E30(5)8/14A	11-Aug	14-Aug	130				
ac	E30(6)8/14A	11-Aug	14-Aug	155				
ac	E30(8)8/14A	11-Aug	14-Aug	150				
ac	E30(10)8/14A*	11-Aug	14-Aug	69	<0.005	0.37	15	17
ad	E30(14)8/11A*	11-Aug	14-Aug	159	<0.005	<0.01	<0.02	0.03
ad	E31(3)8/14A	11-Aug	14-Aug	144				
ad	E31(6)8/14A	11-Aug	14-Aug	145				
ad	E31(7)8/14A	11-Aug	14-Aug	155				
ad	E31(10)8/14A	11-Aug	14-Aug	144				
ae	E31(18)8/14A	11-Aug	14-Aug	146				
ae	D31(9)8/14A	11-Aug	14-Aug	189				
ae	D31(5)8/14A*	11-Aug	14-Aug	188	<0.005	<0.01	0.2	0.06
ae	D31(15)8/14A	11-Aug	14-Aug	122				
ae	D31(7)	11-Aug						
af	F30(11)8/15A*	11-Aug	14-Aug	164	<0.005	<0.01	<0.02	<0.02
af	F30(10)8/15A	12-Aug	15-Aug	144				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
af	F30(6)8/15A	12-Aug	15-Aug	159				
af	F30(3)8/15A	12-Aug	15-Aug	151				
af	F30(1)	12-Aug						
ag	F31(3)8/15A	12-Aug	15-Aug	169				
ag	F31(12)8/15A	12-Aug	15-Aug	171				
ag	F31(11)8/15A	12-Aug	15-Aug	182				
ag	F31(7)8/15A*	12-Aug	15-Aug	173	<0.005	<0.01	<0.02	0.02
ag	F31(6)8/15A	12-Aug	15-Aug	173				
ah	G30(18)8/15A	12-Aug	15-Aug	116				
ah	G30(23)8/15A	12-Aug	15-Aug	153				
ah	F30(14)8/15A	12-Aug	15-Aug	157				
ah	F30(15)8/15A*	12-Aug	15-Aug	146	<0.005	<0.01	<0.02	<0.02
ah	G30(21)	12-Aug						
ai	H31(16)8/15A	12-Aug	15-Aug	163				
ai	G30(4)8/15A	12-Aug	15-Aug	126				
ai	H31(9)8/15A*	12-Aug	15-Aug	160	<0.005	<0.01	<0.02	<0.02
ai	H31(10)8/15A	12-Aug	15-Aug	164				
ai	G30(6)	12-Aug						
aj	G31(13)8/15A	12-Aug	15-Aug	145				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
aj	G31(4)8/15A*	12-Aug	15-Aug	147	<0.005	<0.01	<0.02	<0.02
aj	G31(16)8/15A	12-Aug	15-Aug	143				
aj	G31(11)8/15A	12-Aug	15-Aug	140				
aj	G31(6)8/15A	12-Aug	15-Aug	177				
ak	H31(7)8/15A*	12-Aug	15-Aug	167				
ak	H31(3)8/15A	12-Aug	15-Aug	176				
ak	H31(1)8/15A	12-Aug	15-Aug	163				
al	I31(11)8/17A	13-Aug	17-Aug	165				
al	I31(15)8/17A*	13-Aug	17-Aug	167	<0.005	<0.01	0.031	0.1
al	I31(8)8/17A	13-Aug	17-Aug	167				
al	I31(10)8/17A	13-Aug	17-Aug	162				
al	I31(1)8/17A	13-Aug	17-Aug	146				
am	J31(14)8/17A*	13-Aug	17-Aug	138	<0.005	<0.01	<0.02	0.14
am	J31(2)8/17A	13-Aug	17-Aug	136				
am	J31(12)8/17A	13-Aug	17-Aug	131				
am	J31(4)8/17A	13-Aug	17-Aug	132				
am	J31(5)	13-Aug						
an	L32(1)8/17A*	13-Aug	17-Aug	160	<0.005	<0.01	<0.02	<0.02
an	L32(6)	13-Aug						

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
an	L32(8)	13-Aug						
ao	J32(24)8/17A*	13-Aug	17-Aug	132	<0.005	<0.01	<0.02	0.021
ao	J32(19)8/17A	13-Aug	17-Aug	131				
ao	J32(30)	13-Aug						
ao	K32(33)	13-Aug						
ao	J32(26)	13-Aug						
ap	K32(5)8/17A	13-Aug	17-Aug	168				
ap	K32(11)8/17A*	13-Aug	17-Aug	156	<0.005	<0.01	<0.02	<0.02
ap	K32(2)8/17A	13-Aug	17-Aug	162				
ap	K32(8)	13-Aug						
ap	L32(16)	13-Aug						
aq	F22(18)8/17A	14-Aug	17-Aug	134				
aq	E22(2)8/17A	14-Aug	17-Aug	121				
aq	E22(1)8/17A	14-Aug	17-Aug	127				
aq	E22(5)8/17A	14-Aug	17-Aug	102				
aq	E22(12)8/17A*	14-Aug	17-Aug	132	<0.005	<0.01	<0.02	<0.02
ar	G22(18)8/17A	14-Aug	17-Aug	128				
ar	G22(15)8/17A	14-Aug	17-Aug	143				
ar	F22(7)8/17A	14-Aug	17-Aug	120				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
ar	F22(2)8/17A	14-Aug	17-Aug	122				
ar	F22(10)8/17A*	14-Aug	17-Aug	140	<0.005	<0.01	<0.02	0.029
as	G22(3)8/17A	14-Aug	17-Aug	114				
as	G22(5)8/17A*	14-Aug	17-Aug	129	<0.005	<0.01	<0.02	<0.02
as	H22(12)8/17A	14-Aug	17-Aug	150				
as	G22(8)8/17A	14-Aug	17-Aug	143				
as	G22(7)8/17A	14-Aug	17-Aug	126				
at	E19(9)8/20A*	17-Aug	20-Aug	181	<0.005	0.023	<0.02	0.041
at	F19(23)8/20A	17-Aug	20-Aug	185				
at	E19(10)8/20A	17-Aug	20-Aug	185				
at	E19(5)	17-Aug						
at	E19(12)	17-Aug						
au	F19(1)8/20A	17-Aug	20-Aug	192				
au	G19(19)8/20A*	17-Aug	20-Aug	160	<0.005	<0.01	<0.02	<0.02
au	F19(3)	17-Aug						
au	G19(12)	17-Aug						
au	G19(8)	17-Aug						
av	H19(8)8/20A	17-Aug	20-Aug	165				
av	H19(12)8/20A	17-Aug	20-Aug	171				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
av	H19(15)8/20A*	17-Aug	20-Aug	164	<0.005	0.016	<0.02	<0.02
av	H19(13)	17-Aug						
aw	I22(11)8/21A*	18-Aug	21-Aug	137	<0.005	<0.01	<0.02	<0.02
aw	I22(16)8/21A	18-Aug	21-Aug	152				
aw	I22(4)	18-Aug						
aw	I22(9)	18-Aug						
aw	J22(21)	18-Aug						
ax	K22(16)8/21A*	18-Aug	21-Aug	119	<0.005	<0.01	<0.02	0.02
ax	J22(3)8/21A	18-Aug	21-Aug	155				
ax	K22(9)8/21A	18-Aug	21-Aug	127				
ax	J22(1)	18-Aug						
ax	L22(23)	18-Aug						
ay	N22(23)8/21A	19-Aug	21-Aug	189				
ay	M22(11)8/21A	18-Aug	21-Aug	196				
ay	M22(2)8/21A*	18-Aug	21-Aug	159	<0.005	<0.01	<0.02	<0.02
ay	M22(3)	18-Aug						
ay	M21(15)	18-Aug						
az	N21(15)8/21A	19-Aug	21-Aug	193				
az	N21(18)8/21A	19-Aug	21-Aug	188				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
az	N21(19)8/21A	19-Aug	21-Aug	174				
az	N22(7)8/21A*	19-Aug	21-Aug	159	<0.005	0.023	<0.02	<0.02
az	N22(11)8/21A	19-Aug	21-Aug	193				
ba	D19(2)8/21/A	19-Aug	21-Aug	132			0.028	
ba	D19(13)8/21A*	19-Aug	21-Aug	89.5	<0.005	<0.01	<0.02	0.16
ba	D19(8)	19-Aug						
ba-R	D19(2)8/27A	25-Aug	27-Aug	126	<0.005	<0.01	<0.02	0.14
ba-R	D19(13)8/27A	25-Aug	27-Aug	104	<0.005	<0.01	<0.02	0.11
ba-R	D19(8)	25-Aug						
bb	I19(3)8/21A*	18-Aug	21-Aug	133	<0.005	<0.01	<0.02	<0.02
bb	I19(12)8/21A	18-Aug	21-Aug	162				
bb	I19(9)	18-Aug						
bb	I19(13)	18-Aug						
bc	J20(13)8/21A	19-Aug	21-Aug	121				
bc	J20(5)8/21A*	19-Aug	21-Aug	117	<0.005	<0.01	<0.02	<0.02
bd	L20(5)8/21A*	19-Aug	21-Aug	136	<0.005	<0.01	<0.02	<0.02
bd	L20(11)	19-Aug						
bd	L20(12)	19-Aug						
bd	K20(24)	19-Aug						

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
bd	K20(26)	19-Aug						
be	N21(2)8/21A*	19-Aug	21-Aug	190	<0.005	<0.01	<0.02	0.026
be	N21(6)8/21A	19-Aug	21-Aug	138				
be	M20(12)8/21A*	19-Aug	21-Aug	156	<0.005	<0.01	<0.02	<0.02
be	M20(9)8/21A	19-Aug	21-Aug	155				
be	M20(20)							
bf	M32(5)8/21A*	19-Aug	21-Aug	190	<0.005	<0.01	<0.02	0.026
bf	M32(9)8/21A	19-Aug	21-Aug	180				
bf	M32(11)8/21A	19-Aug	21-Aug	194				
bf	M32(2)8/21A	19-Aug	21-Aug	192				
bf	M32(7)8/21A	19-Aug	21-Aug	172				
bg	M32(15)8/21A	19-Aug	21-Aug	169				
bh	L32(6)8/21A	19-Aug	21-Aug	144				
bi	N32(3)8/24A*	20-Aug	24-Aug	194	<0.005	0.018	<0.02	0.041
bi	N32(1)8/24A	20-Aug	24-Aug	172				
bi	N32(11)8/24A	20-Aug	24-Aug	178				
bi	N32(5)	20-Aug						
bi	N32(8)	20-Aug						
bj	O32(19)8/24A	20-Aug	24-Aug	158				

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
bj	O32(23)8/24A*	20-Aug	24-Aug	139	<0.005	<0.01	<0.02	<0.02
bj	O32(27)8/24A	20-Aug	24-Aug	162				
bj	O32(21)	20-Aug						
bj	O32(25)	20-Aug						
bk	P32(13)8/24A	21-Aug	24-Aug	197				
bk	P32(9)8/24A	21-Aug	24-Aug	204				
bk	P32(6)8/24A*	21-Aug	24-Aug	173	<0.005	<0.01	<0.02	<0.02
bk	O32(1)8/24A	20-Aug	24-Aug	188				
bk	P32(15)	20-Aug						
bl	Q32(13)8/24A*	21-Aug	24-Aug	219	<0.005	0.01	1.3	0.15
bl	Q32(10)8/24A	21-Aug	24-Aug	218				
bl	Q32(5)	21-Aug						
bl	Q32(4)	21-Aug						
bl	Q32(16)	21-Aug						
bm	P32(1)8/24A	21-Aug	24-Aug	224				
bn	E23(9)8/24A	21-Aug	24-Aug	186				
bn	E23(7)8/24A	21-Aug	24-Aug	195				
bn	E23(10)8/24*	21-Aug	24-Aug	200	<0.005	0.018	<0.02	0.046
bn	E23(6)8/24A	21-Aug	24-Aug	192				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
bn	E23(12)8/24A	21-Aug	24-Aug	194				
bo	D23(1)8/24A*	21-Aug	24-Aug	190	<0.005	0.026	<0.02	0.028
bo	D23(13)8/24A*	21-Aug	24-Aug	180	<0.005	0.029	<0.02	0.021
bp	E26(15)8/25A	21-Aug	25-Aug	159				
bp	E26(10)8/25A*	21-Aug	25-Aug	190	<0.005	0.021	<0.02	0.032
bp	E26(13)8/25A	21-Aug	25-Aug	188				
bp	E26(1)	21-Aug						
bp	E26(3)	21-Aug						
bp	E26(8)	21-Aug						
bq	D26(18)8/25A*	21-Aug	25-Aug	159	<0.005	0.01	<0.02	0.028
bq	D26(2)8/27A*	21-Aug	27-Aug	150	<0.005	0.01	<0.02	0.04
bq	E26(8)8/27A*	21-Aug	27-Aug	213	<0.005	0.02	<0.02	0.03
br	E27(8)8/27A*	24-Aug	27-Aug	201	<0.005	0.01	0.05	0.040
br	E27(10)8/27A	24-Aug	27-Aug	168				
br	E27(11)8/27A	24-Aug	27-Aug	154				
br	E27(14)8/27A	24-Aug	27-Aug	163				
br	E27(1)	24-Aug						
br	E27(3)	24-Aug						
bs	E28(5)8/27A	24-Aug	27-Aug	184				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
bs	E28(7)8/27A	24-Aug	27-Aug	151				
bs	E28(8)8/27A*	24-Aug	27-Aug	197	<0.005	0.01	0.3	0.07
bs	E28(10)8/27A	24-Aug	27-Aug	197				
bs	E28(14)8/27A	24-Aug	27-Aug	189				
bs	E28(15)8/27A	24-Aug	27-Aug	214				
bt	Q29(5)8/27A*	25-Aug	27-Aug	169	<0.005	<0.01	<0.02	<0.02
bt	Q29(11)8/27A	25-Aug	27-Aug	182				
bt	Q29(4)	25-Aug						
bt	Q29(8)	25-Aug						
bt	Q29(12)	25-Aug						
bu	E24(2)8/27A	24-Aug	27-Aug	208				
bu	E24(10)8/27A*	24-Aug	27-Aug	199	<0.005	0.02	<0.02	0.03
bu	E24(15)8/27A	24-Aug	27-Aug	219				
bu	E24(5)8/27A	24-Aug	27-Aug	196				
bu	E24(12)8/27A	24-Aug	27-Aug	201				
bv	E25(3)8/27A*	24-Aug	27-Aug	190	<0.005	<0.01	<0.02	0.03
bv	E25(6)8/27A	24-Aug	27-Aug	192				
bv	E25(4)8/27A	24-Aug	27-Aug	196				
bv	E25(12)8/27A	24-Aug	27-Aug	191				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
bv	E25(8)	24-Aug						
bw	P29(3)8/28A	26-Aug	28-Aug	190				
bw	P29(5)8/28A*	26-Aug	28-Aug	217	<0.005	<0.01	0.049	0.067
bw	P29(12)8/28A	26-Aug	28-Aug	232				
bw	P29(13)8/28A	26-Aug	28-Aug	237				
bw	P29(14)8/28A	26-Aug	28-Aug	232				
bx	P28(4)8/28A	26-Aug	28-Aug	215				
bx	P28(12)8/28A*	26-Aug	28-Aug	203	<0.005	<0.01	0.025	0.045
bx	P28(3)	26-Aug						
bx	P28(5)	26-Aug						
bx	P28(6)	26-Aug						
by	O29(6)8/28A	26-Aug	28-Aug	232				
by	O29(8)8/28A	26-Aug	28-Aug	239				
by	O29(10)8/28A	26-Aug	28-Aug	250				
by	O29(11)8/28A	26-Aug	28-Aug	216				
by	O29(12)8/28A*	26-Aug	28-Aug	228	<0.005	<0.01	0.58	0.085
bz	O28(7)8/28A*	26-Aug	28-Aug	215	<0.005	<0.01	0.82	0.12
bz	O28(11)8/28A	26-Aug	28-Aug	223				
bz	O28(2)	26-Aug						

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
bz	O28(6)	26-Aug						
bz	O28(14)	26-Aug						
ca	N28(8)8/28A*	26-Aug	28-Aug	237	<0.005	<0.01	1.2	0.12
ca	N28(2)	26-Aug						
ca	N28(10)	26-Aug						
ca	N28(14)	26-Aug						
ca	N28(15)	26-Aug						
cb	Q26(6)8/31A	27-Aug	31-Aug	213				
cb	P26(13)8/31A*	27-Aug	31-Aug	196	<0.005	0.022	<0.020	0.027
cb	P26(14)8/31A	27-Aug	31-Aug	189				
cb	Q26(8)	27-Aug						
cb	P26(16)	27-Aug						
cc	R26(22)8/31A*	27-Aug	31-Aug	126	<0.005	<0.01	<0.02	<0.02
cc	R26(24)8/31A	27-Aug	31-Aug	130				
cc	R26(26)8/31A	27-Aug	31-Aug	134				
cc	R26(28)8/31A	27-Aug	31-Aug	157				
cc	R26(17)	27-Aug						
cd	P26(5)8/31A	27-Aug	31-Aug	186				
cd	P26(7)8/31A	27-Aug	31-Aug	192				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
cd	O26(27)8/31A*	27-Aug	31-Aug	190	<0.005	0.015	<0.020	<0.020
cd	O26(29)8/31A	27-Aug	31-Aug	190				
cd	O26(30)8/31A	27-Aug	31-Aug	170				
ce	O26(18)8/31A	27-Aug	31-Aug	166				
ce	N26(1)8/31A	27-Aug	31-Aug	157				
ce	N26(10)8/31A	27-Aug	31-Aug	183				
ce	N26(6)8/31A*	27-Aug	31-Aug	191	<0.005	0.022	<0.02	<0.02
ce	O26(20)	27-Aug						
cf	N28(2)8/31A	26-Aug	31-Aug	232				
cf	N28(10)8/31A*	26-Aug	31-Aug	234	<0.005	<0.01	0.33	0.088
cf	N28(14)8/31A	26-Aug	31-Aug	242				
cf	N28(15)8/31A	26-Aug	31-Aug	219				
cf	N28(8)	26-Aug						
cg	M28(3)8/31A	28-Aug	31-Aug	186				
cg	M28(6)8/31A*	28-Aug	31-Aug	231	<0.005	<0.01	0.32	0.067
cg	M28(7)8/31A	28-Aug	31-Aug	229				
cg	M28(1)	26-Aug						
cg	M28(5)	26-Aug						
ch	J28(16)9/3A*	31-Aug	03-Sep	222	<0.005	<0.01	0.411	0.067

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
ch	J27(11)	31-Aug						
ch	J27(10)	31-Aug						
ch	J27(12)9/3A	31-Aug	03-Sep	154				
ch	J27(9)9/3A	31-Aug	03-Sep	239				
ci	D4(9)	01-Sep						
ci	D4(6)	01-Sep						
ci	D4(13)	01-Sep						
ci	D4(14)9/3A*	01-Sep	03-Sep	200	<0.005	0.012	<0.020	0.033
ci	D4(8)9/3A	01-Sep	03-Sep	204				
cj	E4(10)9/3A	01-Sep	03-Sep	227				
cj	E4(12)9/3A*	01-Sep	03-Sep	217	<0.005	<.01	0.542	0.074
cj	E4(9)	01-Sep						
cj	E4(4)9/3A	01-Sep	03-Sep	224				
cj	E4(5)	01-Sep						
ck	I27(1)	01-Sep						
ck	I27(11)9/3A*	01-Sep	03-Sep	223	<0.005	<0.01	0.029	0.045
ck	I27(6)9/3A	01-Sep	03-Sep	227				
ck	I27(5)9/3A	01-Sep	03-Sep	213				
ck	I27(8)9/3A	01-Sep	03-Sep	239				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
cl	J28(8)9/3A*	31-Aug	03-Sep	239	<0.005	<0.01	0.425	0.063
cl	J27(6)9/3A	31-Aug	03-Sep	197				
cl	J28(7)9/3A	31-Aug	03-Sep	246				
cl	J27(5)	31-Aug						
cl	J27(2)	31-Aug						
cm	H25(15)	01-Sep						
cm	H25(9)9/3A*	01-Sep	03-Sep	178	<0.005	0.019	<0.020	0.033
cm	H25(3)9/3A	01-Sep	03-Sep	194				
cm	H25(4)	01-Sep						
cm	H25(11)9/3A	01-Sep	03-Sep	198				
cn	H26(3)	01-Sep						
cn	H26(15)	01-Sep						
cn	H26(9)9/3A	01-Sep	03-Sep	181				
cn	H26(12)9/3A*	01-Sep	03-Sep	195	<0.005	0.013	<0.020	0.044
cn	H26(11)9/3A	01-Sep	03-Sep	194				
co	H27(8)	01-Sep						
co	H27(13)	01-Sep						
co	H27(4)	01-Sep						
co	H27(9)9/3A*	01-Sep	03-Sep	193	<0.005	0.012	<0.020	0.011

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
co	H27(10)9/3A	01-Sep	03-Sep	191				
cp	K28(18)9/3A	31-Aug	03-Sep	220				
cp	K28(21)9/3A	31-Aug	03-Sep	219				
cp	K28(23)9/3A*	31-Aug	03-Sep	228	<0.005	<0.01	0.606	0.077
cp	K28(22)9/3A	31-Aug	03-Sep	237				
cp	K27(14)	31-Aug						
cq	L28(19)9/3A	28-Aug	03-Sep	236				
cq	L28(18)9/3A*	28-Aug	03-Sep	244	<0.005	<0.01	0.293	0.064
cq	M28(13)	28-Aug						
cq	L28(22)9/3A	28-Aug	03-Sep	252				
cq	L28(21)	28-Aug						
cr	L27(20)	28-Aug						
cr	L27(21)	28-Aug						
cr	L27(18)	28-Aug						
cr	L28(9)	28-Aug						
cr	L27(17)	28-Aug						
cs	K27(2)	31-Aug						
cs	K27(3)	01-Sep						
cs	K27(1)	31-Aug						

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
cs	K28(5)9/3A	31-Aug	03-Sep	243				
cs	K28(10)9/3A*	31-Aug	03-Sep	237	<0.005	<0.01	0.297	0.08
ct	J25(11)9/4A	02-Sep	04-Sep	254				
ct	J25(5)	02-Sep						
ct	J25(7)9/4A	02-Sep	04-Sep	263				
ct	J25(3)9/4A*	02-Sep	04-Sep	247	<0.005	<0.01	0.34	0.05
ct	J25(6)9/4A	02-Sep	04-Sep	257				
cu	I25(12)	02-Sep						
cu	I25(16)	02-Sep						
cu	I25(1)	02-Sep						
cu	I25(6)9/4A	02-Sep	04-Sep	223				
cu	I25(13)9/4A*	02-Sep	04-Sep	208	<0.005	<0.01	0.11	0.025
cv	L26(6)	02-Sep						
cv	M26(4)	02-Sep						
cv	L26(4)	02-Sep						
cv	L26(3)9/4A	02-Sep	04-Sep	199				
cv	M26(5)9/4A*	02-Sep	04-Sep	124	<0.005	<0.01	<0.02	<0.02
cw	R25(2)	02-Sep						
cw	R25(13)	02-Sep						

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
cw	R25(10)9/4A	02-Sep	04-Sep	244				
cw	R25(15)9/4A*	02-Sep	04-Sep	254	<0.005	<0.01	0.3	0.042
cx	L25(11)9/4A*	02-Sep	04-Sep	207	<0.005	<0.01	0.065	0.04
cx	L25(12)9/4A	02-Sep	04-Sep	200				
cx	L25(10)9/4A	02-Sep	04-Sep	199				
cx	L25(6)9/4A	02-Sep	04-Sep	198				
cx	L25(8)9/4A*	02-Sep	04-Sep	213	<0.005	<0.01	0.065	0.04
cy	K25(8)9/4A	02-Sep	04-Sep	205				
cy	K25(10)9/4A	02-Sep	04-Sep	211				
cy	K25(7)9/4A	02-Sep	04-Sep	190				
cy	K25(3)9/4A*	02-Sep	04-Sep	195	<0.005	0.013	<0.02	<0.02
cy	K25(4)9/4A	02-Sep	04-Sep	208				
cz	F4(12)9/4A	02-Sep	04-Sep	198				
cz	F4(13)	02-Sep						
cz	F4(10)9/4A	02-Sep	04-Sep	194				
cz	F4(2)9/4A	02-Sep	04-Sep	229				
cz	F4(7)9/4A*	02-Sep	04-Sep	187	<0.005	<0.01	0.1	0.037
da	G4(5)	02-Sep						
da	G4(10)	02-Sep						

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
da	G4(15)9/4A	02-Sep	04-Sep	235				
da	G4(3)9/4A*	02-Sep	04-Sep	247	<0.005	<0.01	1.3	0.084
da	G4(14)9/4A	02-Sep	04-Sep	251				
db	I4(1)	02-Sep						
db	I4(4)	02-Sep						
db	H4(8)	02-Sep						
db	H4(4)9/4A*	02-Sep	04-Sep	244	<0.005	<0.01	1.3	0.084
db	H4(1)	02-Sep						
dc	M11(8)	04-Sep						
dc	M11(4)	04-Sep						
dc	M11(14)9/8A*	04-Sep	08-Sep	242	<0.005	<0.01	1.6	0.1
dd	M10(5)	04-Sep						
dd	M10(9)	04-Sep						
dd	M10(8)9/8A*	04-Sep	08-Sep	219	<0.005	<0.01	1.8	0.093
dd	M10(3)	04-Sep						
de	J5(9)	03-Sep						
de	J5(4)	03-Sep						
de	J5(6)9/8A	03-Sep	08-Sep	198				
de	J5(2)9/8A*	03-Sep	08-Sep	80.4	<0.005	<0.01	0.56	2.2

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
de	J5(11)9/8A	03-Sep	08-Sep	98.7				
df	M6(10)9/8A	03-Sep	08-Sep	123				
df	M6(11)9/8A*	03-Sep	08-Sep	105	<0.005	<0.01	<0.02	0.12
dg	N6(14)9/8A	03-Sep	08-Sep	135				
dg	N6(8)	03-Sep						
dg	N6(4)	03-Sep						
dg	O6(11)9/8A*	03-Sep	08-Sep	165	<0.005	0.013	<0.02	<0.02
dg	N6(13)9/8A	03-Sep	08-Sep	125				
dh	K5(11)9/8A	03-Sep	08-Sep	184				
dh	K5(7)9/8A*	03-Sep	08-Sep	214	<0.005	<0.01	<0.02	0.04
dh	K5(9)	03-Sep						
dh	K5(15)9/8A	03-Sep	08-Sep	183				
di	P6(15)9/8A	03-Sep	08-Sep	152				
di	P6(2)	03-Sep						
di	P6(10)9/8A*	03-Sep	08-Sep	158	<0.005	0.023	<0.02	<0.02
di	O6(8)9/8A	03-Sep	08-Sep	157				
di	P6(6)9/8A	03-Sep	08-Sep	131				
dj	R21(9)9/8A	03-Sep	08-Sep	211				
dj	R21(7)	03-Sep						

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
dj	R21(3)9/8A*	03-Sep	08-Sep	214	<0.005	0.018	<0.02	0.032
dj	R22(3)9/8A	03-Sep	08-Sep	247				
dj	R22(4)9/8A	03-Sep	08-Sep	231				
dk	R23(16)9/8A*	03-Sep	08-Sep	230	<0.005	0.026	<0.02	0.021
dk	R23(1)	03-Sep						
dk	R23(15)9/8A	03-Sep	08-Sep	216				
dk	R23(8)9/8A	03-Sep	08-Sep	255				
dk	R23(11)9/8A	03-Sep	08-Sep	238				
dl	R24(15)9/8A	03-Sep	08-Sep	189				
dl	R24(1)	03-Sep						
dl	R24(14)9/8A	03-Sep	08-Sep	220				
dl	R24(5)9/8A	03-Sep	08-Sep	203				
dl	R24(10)9/8A*	03-Sep	08-Sep	289	<0.005	<0.01	1.4	0.07
dm	R20(11)9/8A	03-Sep	08-Sep	203				
dm	R20(9)9/8A	03-Sep	08-Sep	210				
dm	R20(5)9/8A*	03-Sep	08-Sep	203	<0.005	0.019	<0.02	0.067
dn	Q18(11)9/8A	03-Sep	08-Sep	205				
dn	Q18(2)	03-Sep						
dn	Q18(7)9/8A	03-Sep	08-Sep	203				

TABLE 1
(Continued)

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100 CY LOT ⁽²⁾	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)			
					Cd	Cr	Pb	Zn
dn	P18(15)9/8A	03-Sep	08-Sep	226				
dn	Q18(5)9/8A*	03-Sep	08-Sep	167	<0.005	0.019	<0.02	<0.02

⁽¹⁾ Sample number designations:

Example: F11(10)8/4A*

F11 - Cell number
 (10) - Subcell number
 8/4 - Sample Date
 A - Performance Sample
 * - TCLP analysis performed for Cd, Cr, Pb, and Zn

⁽²⁾ This table is organized according to lot numbers. Materials in Lots "a" through "dn" in this table were inadequately treated during performance trials and, therefore, have been given new lot designations and reported in Table 2.

⁽³⁾ Sample points located too close to a treatment boundary were not sampled.

⁽⁴⁾ Performance trials began on 7/31/92 and were completed on 9/8/92.

TABLE 2
RETENTION RESERVOIR REMEDIATION
SUMMARY OF INDICATOR PARAMETERS

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
do	I9(23)9/24A*	22-Sep	24-Sep	161.0			<0.020		A
do	J9(5)9/24A*	22-Sep	24-Sep	164.0			<0.020		A
do	J9(9)9/24A*	22-Sep	24-Sep	155.0			<0.020		A
do	J9(11)9/24A*	22-Sep	24-Sep	153.0			<0.020		A

⁽¹⁾ Sample number designation:

Example: F11(10)8/4A*

F11 - Cell number

(10) - Subcell number

8/4 - Sample date

A - Performance sample

* - TCLP analysis performed for Cd, Cr, Pb, and Zn

⁽²⁾ Sample Status:

A - Acceptable: Alkalinity of 130,000 through 192,000 mg/Kg

CA - Conditionally Acceptable: Alkalinity of 115,000 to 130,000 or 192,000 to 215,000 mg/Kg and TCLP Lead <0.218 mg/l

U - Unacceptable: Alkalinity outside conditionally acceptable range and/or TCLP Lead > 0.218 mg/l

⁽³⁾ This table is organized according to lot numbers. Lots "a" through "dn" have been redesignated because they were involved in performance trials.

⁽⁴⁾ Treatment began on 9/22/92 and the confirmatory sampling ended on 2/24/93.

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
do	J9(15)9/24A*	22-Sep	24-Sep	158.0			<0.020		A
do	K9(2)9/24A*	22-Sep	24-Sep	166.0			<0.020		A
do-Additional	K9(14)12/9A	22-Sep	09-Dec	158.0					A
dp	K9(18)9/24A*	22-Sep	24-Sep	176.0	<0.005	0.013	<0.020	<0.020	A
dp	K9(22)9/24A*	22-Sep	24-Sep	147.0	<0.005	0.016	<0.020	<0.020	A
dp	K9(27)9/24A*	22-Sep	24-Sep	147.0			<0.020		A
dp	L9(7)9/24A*	22-Sep	24-Sep	160.0			<0.020		A
dp	L9(8)9/24A	22-Sep	24-Sep	153.0					A
dp	L9(10)9/24A*	22-Sep	24-Sep	158.0			<0.020		A
dp	L9(15)9/24A*	22-Sep	24-Sep	158.0			<0.020		A
dp-Additional	K9(10)12/9A	22-Sep	09-Dec	160.0					A
dq	H11(3)9/25A*	23-Sep	25-Sep	198.0			<0.020		CA
dq	H11(6)9/25A*	23-Sep	25-Sep	203.0	<0.005	0.013	<0.020	<0.020	CA
dq	H11(15)9/25A*	23-Sep	25-Sep	194.0			<0.020		CA
dq	I11(3)9/25A	23-Sep	25-Sep	189.0					A
dq	I11(4)9/25A*	23-Sep	25-Sep	193.0			<0.020		CA
dq	I11(7)9/25A*	23-Sep	25-Sep	193.0			<0.020		CA
dq	I11(14)9/25A*	23-Sep	25-Sep	196.0			<0.020		CA
dr	G11(2)9/25A*	23-Sep	25-Sep	200.0	<0.005	0.02	<0.020	<0.020	CA

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
dr	G11(7)9/25A*	23-Sep	25-Sep	201.0			<0.020		CA
dr	G11(10)9/25A*	23-Sep	25-Sep	204.0			<0.020		CA
ds	J11(2)9/25A*	23-Sep	25-Sep	188.0			<0.020		A
ds	J11(6)9/25A*	23-Sep	25-Sep	191.0	<0.005	0.015	<0.020	<0.020	A
ds	J12(2)9/25A	23-Sep	25-Sep	188.0					A
ds	J12(5)9/25A*	23-Sep	25-Sep	193.0			<0.020		CA
ds	J12(7)9/25A	23-Sep	25-Sep	192.0					A
ds	J12(10)9/25A*	23-Sep	25-Sep	191.0			<0.020		A
ds	J12(15)9/25A	23-Sep	25-Sep	191.0					A
dt	K11(8)9/25A*	23-Sep	25-Sep	194.0			<0.020		CA
dt	K12(1)9/25A	23-Sep	25-Sep	178.0					A
dt	K12(5)9/25A*	23-Sep	25-Sep	188.0			<0.020		A
dt	K12(6)9/25A	23-Sep	25-Sep	175.0					A
dt	K12(11)9/25A*	23-Sep	25-Sep	188.0			<0.020		A
dt	K12(13)9/25A*	23-Sep	25-Sep	184.0	<0.005	<0.010	<0.020	<0.020	A
dt	K12(15)9/25A*	23-Sep	25-Sep	188.0			<0.020		A
du	N17(7)12/4A*	02-Dec	04-Dec	141.0	<0.005	<0.010	<0.020	<0.020	A
du	O17(11)12/4A	02-Dec	04-Dec	138.0					A
du	O17(15)12/4A	02-Dec	04-Dec	152.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
du	O18(4)12/4A	02-Dec	04-Dec	151.0					A
du	O18(8)12/4A	02-Dec	04-Dec	146.0					A
du	O18(11)12/4A	02-Dec	04-Dec	152.0					A
du	P18(9)12/4A*	02-Dec	04-Dec	150.0	<0.005	<0.010	<0.020	<0.020	A
du	P18(11)12/4A	02-Dec	04-Dec	153.0					A
du-Additional	P18(11)2/3A	02-Dec	03-Feb	161.0					A
dv	I17(3)12/4A	02-Dec	04-Dec	135.0					A
dv	I17(8)12/4A	02-Dec	04-Dec	143.0					A
dv	J16(8)12/4A	02-Dec	04-Dec	130.0					A
dv	J16(16)12/4A	02-Dec	04-Dec	157.0					A
dv	J17(15)12/4A*	02-Dec	04-Dec	150.0	<0.005	<0.010	<0.020	<0.020	A
dw	J17(1)12/4A	02-Dec	04-Dec	150.0					A
dw	J17(3)12/4A	02-Dec	04-Dec	142.0					A
dw	J17(4)12/4A*	02-Dec	04-Dec	147.0	<0.005	<0.010	<0.020	<0.020	A
dw	K17(8)12/4A	02-Dec	04-Dec	143.0					A
dw	K17(15)12/4A	02-Dec	04-Dec	148.0					A
dx	L17(5)12/4A	02-Dec	04-Dec	159.0					A
dx	L17(10)12/4A	02-Dec	04-Dec	130.0					A
dx	M17(11)12/4A	02-Dec	04-Dec	142.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
dx	M17(14)12/4A*	02-Dec	04-Dec	144.0	<0.005	<0.010	<0.020	<0.020	A
dx	N17(11)12/4A	02-Dec	04-Dec	149.0					A
dx-Additional	M17(4)2/3A	02-Dec	03-Feb	157.0					A
dx-Additional	M17(11)2/3A	02-Dec	03-Feb	155.0					A
dx-Additional	M17(14)2/3A	02-Dec	03-Feb	152.0					A
dy	K15(2)12/4A	02-Dec	04-Dec	141.0					A
dy	L15(6)12/4A*	02-Dec	04-Dec	128.0	<0.005	<0.010	<0.020	0.071	CA
dy	L15(10)12/4A	02-Dec	04-Dec	143.0					A
dy	M15(10)12/4A	02-Dec	04-Dec	138.0					A
dy	M15(13)12/4A	02-Dec	04-Dec	144.0					A
dy-Additional	K15(2)2/5A	02-Dec	05-Feb	123.0					CA
dy-Additional	K15(6)2/3A	02-Dec	03-Feb	143.0					A
dy-Additional	K15(9)2/3A	02-Dec	03-Feb	137.0					A
dy-Additional	L15(2)2/3A	02-Dec	03-Feb	122.0			<0.020		CA
dy-Additional	L15(5)2/3A	02-Dec	03-Feb	138.0					A
dy-Additional	L15(13)2/3A	02-Dec	03-Feb	120.0			0.024		CA
dy-Additional	M15(2)2/3A	02-Dec	03-Feb	133.0					A
dy-Additional	M15(7)2/3A	02-Dec	03-Feb	131.0					A
dy-Additional	M15(13)2/3A	02-Dec	03-Feb	142.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
dz	H15(6)12/4A	02-Dec	04-Dec	180.0					A
dz	H15(15)12/4A	02-Dec	04-Dec	147.0					A
dz	I14(8)12/4A	02-Dec	04-Dec	151.0					A
dz	J15(1)12/4A	02-Dec	04-Dec	144.0					A
dz	J15(9)12/4A*	02-Dec	04-Dec	148.0	<0.005	<0.010	<0.020	<0.020	A
ea	H15(2)10/8A	02-Oct	08-Oct	188.0					A
ea	H16(13)12/4A	02-Dec	04-Dec	142.0					A
ea	H16(15)12/4A	02-Dec	04-Dec	137.0					A
ea	H16(16)12/4A*	02-Dec	04-Dec	142.0	<0.005	<0.010	<0.020	0.027	A
ea	I16(12)12/4A	02-Dec	04-Dec	138.0					A
ea	I17(9)12/4A	02-Dec	04-Dec	154.0					A
eb	Q13(4)2/22A	07-Dec	22-Feb	138.0					A
eb	Q13(6)2/22A	07-Dec	22-Feb	155.0					A
eb	Q13(9)2/22A	07-Dec	22-Feb	155.0					A
eb	Q14(2)2/22A	07-Dec	22-Feb	143.0					A
eb	R12(15)2/22A	07-Dec	22-Feb	164.0					A
eb	R13(13)2/22A*	07-Dec	22-Feb	147.0	<0.005	0.012	<0.020	<0.020	A
eb	R13(15)2/22A	07-Dec	22-Feb	145.0					A
eb	R14(11)2/22A	07-Dec	22-Feb	156.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
eb	R14(13)2/22A	07-Dec	22-Feb	138.0					A
ec	Q14(8)2/9A	07-Dec	09-Feb	127.0					CA
ec	Q14(9)2/9A*	07-Dec	09-Feb	167.0	<0.005	<0.010	<0.020	<0.020	A
ec	Q14(15)2/9A	07-Dec	09-Feb	161.0					A
ec	Q15(2)2/11A*	07-Dec	11-Feb	131.0	<0.005	<0.010	<0.020	<0.020	A
ec	Q15(8)2/11A	07-Dec	11-Feb	131.0					A
ec	Q16(5)2/11A	07-Dec	11-Feb	143.0					A
ec	R15(12)2/11A	07-Dec	11-Feb	134.0					A
ec	R15(14)2/11A	07-Dec	11-Feb	133.0					A
ec	R16(13)2/11A	07-Dec	11-Feb	134.0					A
ec-Additional	R15(13)2/18A	07-Dec	18-Feb	169.0					A
ec-Additional	R15(13)2/22A	07-Dec	22-Feb	140.0					A
ed	P15(2)2/10A	20-Nov	10-Feb	186.0					A
ed	P15(8)2/10A*	20-Nov	10-Feb	162.0	<0.005	0.016	<0.020	<0.020	A
ed	P16(5)2/10A	20-Nov	10-Feb	135.0					A
ed	Q15(9)2/11A	07-Dec	11-Feb	150.0					A
ed	Q15(15)2/11A*	07-Dec	11-Feb	149.0	<0.005	<0.010	<0.020	<0.020	A
ed	Q16(9)2/11	07-Dec	11-Feb	142.0					A
ee	O15(4)2/10	06-Oct	10-Feb	186.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
ee	O15(6)2/10A	06-Oct	10-Feb	190.0					A
ee	O15(9)2/10A*	06-Oct	10-Feb	197.0	<0.005	0.012	<0.020	<0.020	CA
ee	P15(10)2/10A	06-Oct	10-Feb	161.0					A
ee	P15(16)2/10A	06-Oct	10-Feb	162.0					A
ee	P16(9)2/10A	06-Oct	10-Feb	202.0					CA
ef	Q11(9)12/17A	07-Dec	17-Dec	168.0					A
ef	Q11(16)12/17A*	07-Dec	17-Dec	131.0	<0.005	<0.010	<0.020	0.15	A
ef	Q12(1)2/22A	07-Dec	22-Feb	162.0					A
ef	Q12(7)2/22A*	07-Dec	22-Feb	165.0	<0.005	0.021	<0.020	<0.020	A
ef	Q12(14)2/22A	07-Dec	22-Feb	165.0					A
eg	N15(19)12/4A	06-Oct	04-Dec	132.0					A
eg	N15(1)2/10A	06-Oct	10-Feb	151.0					A
eg	N15(7)2/10A	06-Oct	10-Feb	141.0					A
eg	O15(13)2/10A*	06-Oct	10-Feb	194.0	<0.005	0.018	<0.020	<0.020	CA
eg	O15(15)2/10A	06-Oct	10-Feb	177.0					A
eh	Q9(9)12/17A	07-Dec	17-Dec	133.0					A
eh	Q9(14)12/17A*	07-Dec	17-Dec	121.0			0.049		CA
eh	Q10(8)12/17A	07-Dec	17-Dec	160.0					A
eh	Q10(9)12/17A	07-Dec	17-Dec	138.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
eh	Q10(11)12/17A*	07-Dec	17-Dec	161.0	<0.005	<0.010	<0.020	<0.020	A
ei	Q6(11)12/16A	07-Dec	16-Dec	147.0					A
ei	Q6(16)12/16A	07-Dec	16-Dec	150.0					A
ei	Q7(10)12/16A	07-Dec	16-Dec	134.0					A
ei	Q8(10)12/16A*	07-Dec	16-Dec	135.0	<0.005	<0.010	<0.020	<0.020	A
ei	Q8(13)12/16A	07-Dec	16-Dec	135.0					A
ei-Additional	Q6(8)2/5A	07-Dec	05-Feb	132.0					A
ei-Additional	Q6(10)2/5A	07-Dec	05-Feb	134.0					A
ei-Additional	Q6(16)2/5A	07-Dec	05-Feb	137.0					A
ei-Additional	Q7(5)2/5A	07-Dec	05-Feb	147.0					A
ei-Additional	Q7(7)2/5A	07-Dec	05-Feb	147.0					A
ei-Additional	Q7(10)2/5A	07-Dec	05-Feb	154.0					A
ei-Additional	Q7(15)2/5A	07-Dec	05-Feb	166.0					A
ei-Additional	Q8(9)2/5A	07-Dec	05-Feb	159.0					A
ei-Additional	Q8(14)2/5A	07-Dec	05-Feb	134.0					A
ej	O30(1)10/12A	08-Oct	12-Oct	200.0					CA
ej	O30(3)10/12A*	08-Oct	12-Oct	202.0					CA
ej	O30(6)10/12A	08-Oct	12-Oct	212.0					CA
ej	P30(14)10/12A	08-Oct	12-Oct	197.0					CA

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
ej	P30(16)10/12A	08-Oct	12-Oct	199.0					CA
ek	Q31(1)2/4A	13-Oct	04-Feb	155.0					A
ek	Q31(3)2/4A	13-Oct	04-Feb	147.0					A
ek	Q31(6)2/4A	13-Oct	04-Feb	153.0					A
ek	Q31(13)2/4A*	13-Oct	04-Feb	160.0	<0.005	<0.010	<0.020	<0.020	A
ek	Q31(15)2/4A	13-Oct	04-Feb	153.0					A
el	R28(16)2/4A	13-Oct	04-Feb	156.0					A
el	R29(2)2/4A	13-Oct	04-Feb	157.0					A
el	R29(5)2/4A*	13-Oct	04-Feb	148.0	<0.005	<0.010	<0.020	<0.020	A
el	R29(10)2/4A	13-Oct	04-Feb	164.0					A
el	R29(16)2/4A	13-Oct	04-Feb	154.0					A
em	R30(5)2/4A	13-Oct	04-Feb	166.0					A
em	R30(7)2/4A	13-Oct	04-Feb	147.0					A
em	R30(10)2/4A*	13-Oct	04-Feb	145.0	<0.005	<0.010	<0.020	<0.020	A
em	R30(16)2/4A	13-Oct	04-Feb	157.0					A
em	R31(3)2/4A	13-Oct	04-Feb	137.0					A
em	R31(10)2/4A	13-Oct	04-Feb	141.0					A
em	R31(16)2/4A	13-Oct	04-Feb	145.0					A
en	Q30(3)2/4A	13-Oct	04-Feb	156.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
en	Q30(5)2/4A	13-Oct	04-Feb	154.0					A
en	Q30(6)2/4A	13-Oct	04-Feb	172.0					A
en	Q30(11)2/4A	13-Oct	04-Feb	161.0					A
en	Q30(14)2/4A	13-Oct	04-Feb	152.0	<0.005	0.013	<0.020	<0.020	A
en	Q30(16)2/4A	13-Oct	04-Feb	149.0					A
eo	P30(2)10/19A	14-Oct	19-Oct	175.0					A
eo	P30(3)10/19A	14-Oct	19-Oct	152.0					A
eo	P30(5)10/19A	14-Oct	19-Oct	189.0					A
eo	P30(6)10/19A	14-Oct	19-Oct	190.0					A
eo	P30(7)10/19A*	14-Oct	19-Oct	183.0	<0.005	<0.010	<0.020	<0.020	A
ep	P31(2)10/19A	14-Oct	19-Oct	182.0					A
ep	P31(3)10/19A	14-Oct	19-Oct	160.0					A
ep	P31(6)10/19A	14-Oct	19-Oct	168.0					A
ep	P31(7)10/19A	14-Oct	19-Oct	161.0					A
ep	P31(8)10/91A*	14-Oct	19-Oct	192.0	<0.005	<0.010	<0.020	0.037	A
eq	O30(1)10/19A*	14-Oct	19-Oct	179.0	<0.005	<0.010	<0.020	<0.020	A
eq	O30(2)10/19A	14-Oct	19-Oct	147.0					A
eq	O30(4)10/19A	14-Oct	19-Oct	183.0					A
eq	O30(6)10/19A	14-Oct	19-Oct	178.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
eq	P30(13)11/16A	14-Oct	16-Nov	177.0					A
er	O31(1)10/19A*	14-Oct	19-Oct	180.0	<0.005	<0.010	<0.020	<0.020	A
er	O31(3)10/19A	14-Oct	19-Oct	137.0					A
er	O31(5)10/19A	14-Oct	19-Oct	175.0					A
er	O31(7)10/19A	14-Oct	19-Oct	147.0					A
er	P31(16)10/19A	14-Oct	19-Oct	117.0			0.18		CA
es	O30(13)10/19A	14-Oct	19-Oct	162.0					A
es	O30(14)10/19A*	14-Oct	19-Oct	181.0	<0.005	<0.010	<0.020	<0.020	A
es	O30(18)10/19A	14-Oct	19-Oct	191.0					A
es	O31(24)10/19A	14-Oct	19-Oct	175.0					A
es	O31(26)10/19A	14-Oct	19-Oct	173.0					A
et	N31(3)10/19A*	15-Oct	19-Oct	148.0	<0.005	<0.010	<0.020	0.085	A
et	N31(4)10/19A	15-Oct	19-Oct	169.0					A
et	N31(6)10/19A	15-Oct	19-Oct	153.0					A
et	N31(7)10/19A	15-Oct	19-Oct	164.0					A
et	N31(11)10/19A	15-Oct	19-Oct	137.0					A
eu	M30(9)10/19A	15-Oct	19-Oct	163.0					A
eu	M30(11)10/19A	15-Oct	19-Oct	187.0					A
eu	N30(3)10/19A*	15-Oct	19-Oct	187.0	<0.005	<0.010	<0.020	<0.020	A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
eu	N30(4)10/19A	15-Oct	19-Oct	163.0					A
eu	N30(6)10/19A	15-Oct	19-Oct	158.0					A
ev	N30(17)10/19A	15-Oct	19-Oct	173.0					A
ev	N30(18)10/19A	15-Oct	19-Oct	160.0					A
ev	N30(19)10/19A*	15-Oct	19-Oct	166.0	<0.005	<0.010	<0.020	0.028	A
ev	N30(22)10/19A	15-Oct	19-Oct	167.0					A
ev	N31(14)10/19A	15-Oct	19-Oct	163.0					A
ew	L30(2)10/19A	15-Oct	19-Oct	175.0					A
ew	L30(7)10/19A	15-Oct	19-Oct	164.0					A
ew	L30(8)10/19A	15-Oct	19-Oct	181.0					A
ew	L30(10)10/19A	15-Oct	19-Oct	174.0					A
ew	L30(11)10/19A*	15-Oct	19-Oct	208.0	<0.005	<0.010	<0.020	0.02	CA
ex	M30(13)10/19A	15-Oct	19-Oct	172.0					A
ex	M30(15)10/19A	15-Oct	19-Oct	165.0					A
ex	M30(16)10/19A	15-Oct	19-Oct	172.0					A
ex	M30(18)10/19A*	15-Oct	19-Oct	163.0	<0.005	<0.010	<0.020	0.033	A
ex	M30(23)10/19A	15-Oct	19-Oct	163.0					A
ey	K30(18)10/20A	15-Oct	20-Oct	139.0					A
ey	K30(21)10/20A	15-Oct	20-Oct	137.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
ey	K30(23)10/20A	15-Oct	20-Oct	144.0					A
ey	L30(14)10/20A	15-Oct	20-Oct	156.0					A
ey	L30(16)10/20A*	15-Oct	20-Oct	205.0	<0.005	<0.010	<0.020	0.03	CA
ez	J30(2)10/20A	15-Oct	20-Oct	150.0					A
ez	J30(4)10/20A*	15-Oct	20-Oct	149.0	<0.005	<0.010	<0.020	0.17	A
ez	J30(5)10/20A	15-Oct	20-Oct	139.0					A
ez	J30(6)10/20A	15-Oct	20-Oct	142.0					A
ez	J30(8)10/20A	15-Oct	20-Oct	140.0					A
fa	J29(3)10/20A	15-Oct	20-Oct	166.0					A
fa	J29(4)10/20A	15-Oct	20-Oct	135.0					A
fa	K29(5)10/20A*	15-Oct	20-Oct	138.0	<0.005	<0.010	0.034	0.54	A
fa	K29(8)10/21A	15-Oct	20-Oct	136.0					A
fa	K29(9)10/20A	15-Oct	20-Oct	134.0					A
fb	I29(3)10/20A	15-Oct	20-Oct	136.0					A
fb	I29(4)10/20A*	15-Oct	20-Oct	152.0	<0.005	<0.010	<0.020	0.11	A
fb	I29(5)10/20A	15-Oct	20-Oct	144.0					A
fb	I29(6)10/20A	15-Oct	20-Oct	146.0					A
fb	I29(9)10/20A	15-Oct	20-Oct	146.0					A
fc	H29(18)10/20A	15-Oct	20-Oct	148.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
fc	I29(12)10/20A	15-Oct	20-Oct	154.0					A
fc	I29(14)10/20A	15-Oct	20-Oct	156.0					A
fc	I29(15)10/20A*	15-Oct	20-Oct	147.0	<0.005	<0.010	<0.020	0.12	A
fc	I29(16)10/20A	15-Oct	20-Oct	153.0					A
fd	H29(2)10/20A*	15-Oct	20-Oct	132.0	<0.005	<0.010	<0.020	0.3	A
fd	H29(4)10/20A	15-Oct	20-Oct	146.0					A
fd	H29(6)10/20A	15-Oct	20-Oct	151.0					A
fd	H29(8)10/20A	15-Oct	20-Oct	130.0					A
fd	H29(10)11/16A	15-Oct	16-Nov	210.0			<0.020		CA
fe	N29(2)10/22A	20-Oct	22-Oct	166.0					A
fe	N29(3)10/22A*	20-Oct	22-Oct	168.0	<0.005	<0.010	<0.020	0.16	A
fe	N29(7)10/22A	20-Oct	22-Oct	162.0					A
fe	N29(9)10/22A	20-Oct	22-Oct	159.0					A
fe	N29(11)10/22A	20-Oct	22-Oct	167.0					A
ff	L29(9)10/22A*	20-Oct	22-Oct	120.0	<0.005	<0.010	0.041	1.700	CA
ff	M29(3)10/22A	20-Oct	22-Oct	159.0					A
ff	M29(6)10/22A	20-Oct	22-Oct	140.0					A
ff	M29(7)10/22A	20-Oct	22-Oct	149.0					A
ff	M29(8)10/22A	20-Oct	22-Oct	170.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
fg	M29(19)10/22A	20-Oct	22-Oct	160.0					A
fg	M29(21)11/16A	20-Oct	16-Nov	183.0					A
fg	M29(24)10/22A	20-Oct	22-Oct	166.0					A
fg	N29(13)10/22A	20-Oct	22-Oct	185.0					A
fg	N29(15)10/22A	20-Oct	22-Oct	170.0					A
fh	L29(13)10/22A	20-Oct	22-Oct	136.0					A
fh	L29(16)10/22A	20-Oct	22-Oct	152.0					A
fh	L29(18)10/22A	20-Oct	22-Oct	144.0					A
fh	L29(20)10/22A*	20-Oct	22-Oct	152.0	<0.005	<0.010	<0.020	0.051	A
fh	L29(21)10/22A*	20-Oct	22-Oct	120.0			<0.020		CA
fi	K30(30)10/26A	15-Oct	26-Oct	166.0					A
fi	K30(32)10/26A	15-Oct	26-Oct	140.0					A
fi	K31(15)10/26A	22-Oct	26-Oct	162.0					A
fi	K31(18)10/26A	22-Oct	26-Oct	165.0					A
fi	K31(21)10/26A*	22-Oct	26-Oct	149.0	<0.005	<0.010	<0.020	0.047	A
fi	K31(23)11/16A	03-Nov	16-Nov	153.0					A
fi	K31(24)11/16A	03-Nov	16-Nov	162.0					A
fj	H28(17)10/26A	21-Oct	26-Oct	163.0					A
fj	H28(19)10/26A	21-Oct	26-Oct	167.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
fj	H28(22)10/26A*	21-Oct	26-Oct	152.0	<0.005	<0.010	<0.020	<0.020	A
fj	I28(15)10/26A	21-Oct	26-Oct	170.0					A
fj	I28(16)10/26A	21-Oct	26-Oct	168.0					A
fk	I28(2)10/26A	21-Oct	26-Oct	162.0					A
fk	I28(3)10/26A	21-Oct	26-Oct	185.0					A
fk	I28(4)10/26A	21-Oct	26-Oct	179.0					A
fk	I28(6)10/26A*	21-Oct	26-Oct	162.0	<0.005	<0.010	<0.020	<0.020	A
fk	I28(10)10/26A	21-Oct	26-Oct	175.0					A
fl	H28(3)10/26A	21-Oct	26-Oct	165.0					A
fl	H28(4)10/26A*	21-Oct	26-Oct	170.0	<0.005	<0.010	<0.020	<0.020	A
fl	H28(6)10/26A	21-Oct	26-Oct	163.0					A
fm	I23(2)10/26A	21-Oct	26-Oct	161.0					A
fm	I23(4)10/26A*	21-Oct	26-Oct	136.0	<0.005	<0.010	<0.020	0.029	A
fm	I23(7)10/26A	21-Oct	26-Oct	174.0					A
fm	I23(13)10/26A	21-Oct	26-Oct	171.0					A
fm	I23(14)10/26A	21-Oct	26-Oct	166.0					A
fn	H23(2)10/26A	21-Oct	26-Oct	165.0					A
fn	H23(10)10/26A*	21-Oct	26-Oct	164.0	<0.005	<0.010	<0.020	<0.020	A
fn	H23(11)10/26A	21-Oct	26-Oct	165.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
fn	H23(12)10/27A	21-Oct	27-Oct	161.0					A
fn	H23(13)10/26A	21-Oct	26-Oct	166.0					A
fo	I24(3)11/16A	27-Oct	16-Nov	178.0					A
fo	I24(4)11/16A*	27-Oct	16-Nov	198.0			<0.020		CA
fo	I24(6)10/26A	21-Oct	26-Oct	186.0					A
fo	I24(8)10/26A*	21-Oct	26-Oct	192.0	<0.005	<0.010	<0.020	<0.020	A
fo	I24(14)10/26A*	21-Oct	26-Oct	197.0			0.020		CA
fp	H24(2)10/26A	22-Oct	26-Oct	192.0					A
fp	H24(3)10/26A*	22-Oct	26-Oct	199.0	<0.005	<0.010	<0.020	<0.020	CA
fp	H24(4)10/26A*	22-Oct	26-Oct	197.0			<0.020		CA
fp	H24(5)10/26A	22-Oct	26-Oct	180.0					A
fp	H24(8)10/26A*	22-Oct	26-Oct	196.0			<0.020		CA
fq	M31(1)10/26A*	22-Oct	26-Oct	158.0	<0.005	<0.010	<0.020	<0.020	A
fq	M31(2)10/26A	22-Oct	26-Oct	153.0					A
fq	M31(5)10/26A	22-Oct	26-Oct	161.0					A
fq	M31(9)10/26A	22-Oct	26-Oct	162.0					A
fq	M31(10)10/26A	22-Oct	26-Oct	156.0					A
fr	L31(18)10/26A	22-Oct	26-Oct	165.0					A
fr	L31(20)10/26A	22-Oct	26-Oct	159.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
fr	L31(21)10/26A	22-Oct	26-Oct	160.0					A
fr	L31(22)10/26A*	22-Oct	26-Oct	162.0	<0.005	<0.010	<0.020	<0.020	A
fr	M31(15)10/26A	22-Oct	26-Oct	168.0					A
fs	K31(10)10/26A	22-Oct	26-Oct	171.0					A
fs	L31(3)10/26A	22-Oct	26-Oct	176.0					A
fs	L31(5)10/26A	22-Oct	26-Oct	170.0					A
fs	L31(7)10/26A	22-Oct	26-Oct	174.0					A
fs	L31(8)10/26A*	22-Oct	26-Oct	174.0	<0.005 -	<0.010	<0.020	<0.020	A
ft	K23(4)10/27A	23-Oct	27-Oct	172.0					A
ft	K23(6)10/27A	23-Oct	27-Oct	165.0					A
ft	K23(8)10/27A*	23-Oct	27-Oct	154.0	<0.005	<0.010	<0.020	<0.020	A
ft	K23(10)10/27A	23-Oct	27-Oct	169.0					A
ft	K23(15)10/27A	23-Oct	27-Oct	159.0					A
fu	L23(5)10/27A	23-Oct	27-Oct	182.0					A
fu	L23(7)10/27A	23-Oct	27-Oct	189.0					A
fu	L23(8)10/27A	23-Oct	27-Oct	190.0					A
fu	L23(12)10/27A*	23-Oct	27-Oct	169.0	<0.005	0.010	<0.020	<0.020	A
fu	L23(14)10/27A	23-Oct	27-Oct	184.0					A
fv	L24(5)10/27A	23-Oct	27-Oct	182.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
fv	L24(7)10/27A*	23-Oct	27-Oct	201.0	<0.005	<0.010	<0.020	0.021	CA
fv	L24(10)10/27A	23-Oct	27-Oct	180.0					A
fv	L24(13)10/27A	23-Oct	27-Oct	181.0					A
fv	L24(15)10/27A	23-Oct	27-Oct	188.0					A
fw	K24(2)10/27A	23-Oct	27-Oct	176.0					A
fw	K24(3)10/27A	23-Oct	27-Oct	183.0					A
fw	K24(6)10/27A*	23-Oct	27-Oct	151.0	<0.005	<0.010	<0.020	<0.020	A
fw	K24(9)10/27A	23-Oct	27-Oct	146.0					A
fw	K24(11)10/27A	23-Oct	27-Oct	150.0					A
fx	F23(2)10/30A	13-Oct	30-Oct	168.0					A
fx	F23(4)10/30A	13-Oct	30-Oct	167.0					A
fx	F23(8)10/30A	13-Oct	30-Oct	168.0					A
fx	F23(10)10/30A	13-Oct	30-Oct	172.0					A
fx	F23(12)10/30A*	13-Oct	30-Oct	174.0	<0.005	<0.010	<0.020	<0.020	A
fy	F24(1)10/30A*	13-Oct	30-Oct	181.0	<0.005	<0.010	<0.020	<0.020	A
fy	F24(3)10/30A	13-Oct	30-Oct	183.0					A
fy	F24(6)10/30A	13-Oct	30-Oct	180.0					A
fy	F24(9)10/30A	13-Oct	30-Oct	168.0					A
fy	F24(12)10/30A	13-Oct	30-Oct	180.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
fz	F25(2)10/30A	13-Oct	30-Oct	190.0					A
fz	F25(3)10/30A	13-Oct	30-Oct	188.0					A
fz	F25(5)10/30A	13-Oct	30-Oct	191.0					A
fz	F25(10)10/30A	13-Oct	30-Oct	192.0					A
fz	F25(12)10/30A*	13-Oct	30-Oct	197.0	<0.005	<0.010	<0.020	<0.020	CA
g ^a	F26(5)10/30A	13-Oct	30-Oct	192.0					A
g ^a	F26(8)10/30A	13-Oct	30-Oct	191.0					A
g ^a	F26(10)10/30A	13-Oct	30-Oct	191.0					A
g ^a	F26(11)10/30A*	13-Oct	30-Oct	195.0	<0.005	0.012	<0.020	<0.020	CA
g ^a -Resample	F26(16)11/16A	13-Oct	16-Nov	190.0					A
g ^b	G23(6)10/30A	13-Oct	30-Oct	178.0					A
g ^b	G23(8)10/30A	13-Oct	30-Oct	169.0					A
g ^b	G23(10)10/30A	13-Oct	30-Oct	169.0					A
g ^b	G23(13)10/30A	13-Oct	30-Oct	161.0					A
g ^b	G23(15)10/30A*	13-Oct	30-Oct	162.0	<0.005	<0.010	<0.020	<0.020	A
g ^c	G24(6)10/30A	13-Oct	30-Oct	171.0					A
g ^c	G24(8)10/30A	13-Oct	30-Oct	187.0					A
g ^c	G24(11)10/30A	13-Oct	30-Oct	189.0					A
g ^c	G24(13)10/30A	13-Oct	30-Oct	186.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
gc	G24(14)10/30A*	13-Oct	30-Oct	179.0	<0.005	<0.010	<0.020	<0.020	A
gd	G25(1)10/30A	13-Oct	30-Oct	183.0					A
gd	G25(5)10/30A*	13-Oct	30-Oct	189.0	<0.005	0.010	<0.020	<0.020	A
gd	G25(7)10/30A	13-Oct	30-Oct	191.0					A
gd	G25(10)10/30A	13-Oct	30-Oct	182.0					A
gd	G25(16)10/30A	13-Oct	30-Oct	191.0					A
ge	F26(3)10/30A*	13-Oct	30-Oct	194.0			<0.020		CA
ge	G26(7)10/30A	13-Oct	30-Oct	191.0					A
ge	G26(9)10/30A	13-Oct	30-Oct	192.0					A
ge	G26(14)10/30A*	13-Oct	30-Oct	191.0	<0.005	0.011	<0.020	<0.020	A
ge	G26(16)10/30A*	13-Oct	30-Oct	201.0			<0.020		CA
gf	F27(9)10/30A*	19-Oct	30-Oct	191.0	<0.005	0.010	<0.020	<0.020	A
gf	F27(11)11/3A	19-Oct	03-Nov	169.0					A
gf	F27(14)11/3A	19-Oct	03-Nov	169.0					A
gf	G26(3)10/30A	19-Oct	30-Oct	184.0					A
gf	G26(5)10/30A	19-Oct	30-Oct	189.0					A
gg	F27(3)11/3A	19-Oct	03-Nov	165.0					A
gg	F27(6)11/3A*	19-Oct	03-Nov	168.0	<0.005	<0.010	<0.020	<0.020	A
gg	F27(8)11/3A	19-Oct	03-Nov	164.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
g ^e	G27(12)11/3A	19-Oct	03-Nov	171.0					A
g ^e	G27(15)11/3A	19-Oct	03-Nov	171.0					A
g ^h	F28(15)11/3A*	19-Oct	03-Nov	192.0	<0.005	<0.010	<0.020	<0.020	A
g ^h	G27(3)11/3A	19-Oct	03-Nov	169.0					A
g ^h	G27(8)11/3A	19-Oct	03-Nov	169.0					A
g ^h	G27(9)10/30A*	19-Oct	30-Oct	172.0	<0.005	0.010	<0.020	<0.020	A
g ^h	G27(11)11/3A*	19-Oct	03-Nov	168.0	<0.005	<0.010	<0.020	<0.020	A
g ⁱ	F28(1)11/3A	16-Oct	03-Nov	176.0					A
g ⁱ	F28(6)11/3A*	16-Oct	03-Nov	171.0	<0.005	<0.010	<0.020	<0.020	A
g ⁱ	F28(7)11/3A	16-Oct	03-Nov	181.0					A
g ⁱ	F28(9)11/3A	16-Oct	03-Nov	182.0					A
g ⁱ	F28(12)11/3A	16-Oct	03-Nov	146.0					A
g ^j	G28(5)11/3A	16-Oct	03-Nov	173.0					A
g ^j	G28(7)11/3A	16-Oct	03-Nov	169.0					A
g ^j	G28(8)11/3A*	16-Oct	03-Nov	179.0	<0.005	<0.010	<0.020	<0.020	A
g ^j	G28(10)11/3A	16-Oct	03-Nov	191.0					A
g ^j	G28(15)11/3A	16-Oct	03-Nov	174.0					A
g ^k	F29(9)11/3A	16-Oct	03-Nov	178.0					A
g ^k	F29(11)11/3A*	16-Oct	03-Nov	160.0	<0.005	<0.010	<0.020	<0.020	A

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(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
gk	F29(15)11/3A	16-Oct	03-Nov	130.0					A
gk	G28(2)11/3A	16-Oct	03-Nov	157.0					A
gk	G28(4)11/3A	16-Oct	03-Nov	176.0					A
gl	F29(1)11/3A	16-Oct	03-Nov	191.0					A
gl	F29(3)11/3A*	16-Oct	03-Nov	185.0	<0.005	0.013	<0.010	<0.020	A
gl	F29(5)11/3A	16-Oct	03-Nov	180.0					A
gl	F29(6)11/3A	16-Oct	03-Nov	189.0					A
gl	G29(13)11/3A	16-Oct	03-Nov	181.0					A
gm	G29(2)11/3A*	16-Oct	03-Nov	176.0	<0.005	0.010	<0.020	<0.020	A
gm	G29(7)11/3A	16-Oct	03-Nov	172.0					A
gm	G29(8)11/3A*	16-Oct	03-Nov	120.0			<0.020		CA
gm	G29(9)11/3A	16-Oct	03-Nov	179.0					A
gm	G29(11)11/3A	16-Oct	03-Nov	176.0					A
gn	H30(7)11/3A	26-Oct	03-Nov	136.0					A
gn	H30(10)11/3A	26-Oct	03-Nov	142.0					A
gn	H30(11)11/3A*	26-Oct	03-Nov	141.0	<0.005	<0.010	<0.020	0.130	A
gn	H30(12)11/3A	26-Oct	03-Nov	146.0					A
gn	H30(15)11/3A	26-Oct	03-Nov	150.0					A
go	H30(1)11/3A	26-Oct	03-Nov	146.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
g0	H30(2)11/3A	26-Oct	03-Nov	151.0					A
g0	I30(11)11/3A	26-Oct	03-Nov	138.0					A
g0	I30(12)11/3A	26-Oct	03-Nov	146.0					A
g0	I30(16)11/3A*	26-Oct	03-Nov	142.0	<0.005	<0.010	<0.020	0.086	A
gP	I30(3)11/3A	26-Oct	03-Nov	131.0					A
gP	I30(4)11/3A	26-Oct	03-Nov	132.0					A
gP	I30(5)11/3A*	26-Oct	03-Nov	142.0	<0.005	<0.010	<0.020	<0.020	A
gq	M23(3)11/4A	28-Oct	04-Nov	151.0					A
gq	M23(6)11/4A*	28-Oct	04-Nov	155.0	<0.005	<0.010	<0.020	<0.020	A
gq	M23(7)11/4A	28-Oct	04-Nov	161.0					A
gq	M23(11)11/4A	28-Oct	04-Nov	156.0					A
gq	M23(14)11/4A	28-Oct	04-Nov	173.0					A
gr	M24(1)11/4A	28-Oct	04-Nov	172.0					A
gr	M24(4)11/4A	28-Oct	04-Nov	145.0					A
gr	M24(7)11/4A	28-Oct	04-Nov	161.0					A
gr	M24(13)11/4A	28-Oct	04-Nov	159.0					A
gr	M24(15)11/4A*	28-Oct	04-Nov	144.0	<0.005	<0.010	<0.020	<0.020	A
gs	N23(4)11/4A	28-Oct	04-Nov	147.0					A
gs	N23(7)11/4A	28-Oct	04-Nov	148.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
gs	N23(12)11/4A	28-Oct	04-Nov	155.0					A
gs	N23(14)11/4A*	28-Oct	04-Nov	150.0	<0.005	<0.010	<0.020	<0.020	A
gs	N23(16)11/4A	28-Oct	04-Nov	173.0					A
gt	N24(6)11/4A	28-Oct	04-Nov	152.0					A
gt	N24(8)11/4A	28-Oct	04-Nov	142.0					A
gt	N24(11)11/4A	28-Oct	04-Nov	132.0					A
gt	N24(13)11/4A*	28-Oct	04-Nov	159.0	<0.005	<0.010	<0.020	<0.020	A
gt	N24(14)11/4A	28-Oct	04-Nov	144.0					A
gu	P19(4)11/11A	02-Nov	11-Nov	158.0					A
gu	P19(5)11/5A*	02-Nov	05-Nov	126.0	<0.005	<0.010	<0.020	<0.020	CA
gu	P19(14)11/5/A	02-Nov	05-Nov	150.0					A
gu	P19(15)11/5A	02-Nov	05-Nov	152.0					A
gu	P20(5)11/5A	02-Nov	05-Nov	152.0					A
gv	P20(3)11/11A	02-Nov	11-Nov	138.0					A
gv	P20(10)11/5A	02-Nov	05-Nov	149.0					A
gv	P20(12)11/5A*	02-Nov	05-Nov	144.0	<0.005	<0.010	<0.020	<0.020	A
gv	P20(15)11/5A	02-Nov	05-Nov	136.0					A
gv	P21(5)11/11A	02-Nov	11-Nov	133.0					A
gw	D27(2)11/6A	31-Oct	06-Nov	147.0					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
gw	D27(6)11/6A	31-Oct	06-Nov	154.0					A
gw	D27(10)11/6A	31-Oct	06-Nov	144.0					A
gw	D27(13)11/6A*	31-Oct	06-Nov	147	<0.005	<0.010	<0.020	0.052	A
gx	D27(12)11/6A	31-Oct	06-Nov	157					A
gx	D27(15)11/6A	31-Oct	06-Nov	144					A
gx	D28(1)11/6A	31-Oct	06-Nov	158					A
gx	D28(6)11/6A	31-Oct	06-Nov	172					A
gx	D28(9)11/6A*	31-Oct	06-Nov	148	<0.005	<0.010	<0.020	0.035	A
gy	D28(4)11/6A	31-Oct	06-Nov	154					A
gy	D28(11)11/6A	31-Oct	06-Nov	152					A
gy	D28(12)11/6A*	31-Oct	06-Nov	148	<0.005	<0.010	<0.020	<0.020	A
gy	D28(15)11/6A	31-Oct	06-Nov	152					A
gy	D29(13)11/6A	31-Oct	06-Nov	154					A
gz	D29(4)11/6A	31-Oct	06-Nov	148					A
gz	D29(5)11/6A	31-Oct	06-Nov	164					A
gz	D29(7)11/6A*	31-Oct	06-Nov	151	<0.005	<0.010	<0.020	0.091	A
gz	D29(10)11/6A	31-Oct	06-Nov	150					A
gz	D29(15)11/6A	31-Oct	06-Nov	152					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
ha	D23(5)11/9A	31-Oct	09-Nov	149					A
ha	D23(7)11/9A	31-Oct	09-Nov	140					A
ha	D23(8)11/9A	31-Oct	09-Nov	153					A
ha	D23(15)11/9A*	31-Oct	09-Nov	159	<0.005	<0.010	<0.020	0.035	A
hb	D24(1)11/9A*	31-Oct	09-Nov	161	<0.005	<0.010	<0.020	0.031	A
hb	D24(3)11/9A	31-Oct	09-Nov	161					A
hb	D24(10)11/9A	31-Oct	09-Nov	142					A
hb	D24(12)11/9A	31-Oct	09-Nov	158					A
hb	D24(16)11/9A	31-Oct	09-Nov	161					A
hc	D25(3)112/9A	31-Oct	09-Nov	160					A
hc	D25(4)11/9A	31-Oct	09-Nov	150					A
hc	D25(8)11/9A	31-Oct	09-Nov	153					A
hc	D25(9)11/9A	31-Oct	09-Nov	161					A
hc	D25(12)11/9A*	31-Oct	09-Nov	154	<0.005	<0.010	<0.020	0.020	A
hd	D26(2)11/9A*	31-Oct	09-Nov	144	<0.005	<0.010	<0.020	0.042	A
hd	D26(7)11/9A	31-Oct	09-Nov	152					A
hd	D26(8)11/9A	31-Oct	09-Nov	150					A
hd	D26(9)11/9A	31-Oct	09-Nov	152					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
hd	D26(10)11/9A	31-Oct	09-Nov	150					A
he	D25(16)11/9A	31-Oct	09-Nov	158					A
he	D26(14)11/9A*	31-Oct	09-Nov	156	<0.005	<0.010	<0.020	0.040	A
he	E25(3)11/9A	31-Oct	09-Nov	180					A
he	E26(2)11/9A	31-Oct	09-Nov	172					A
hf	E23(3)11/9A	31-Oct	09-Nov	156					A
hf	E23(5)11/9A*	31-Oct	09-Nov	160	<0.005	<0.010	<0.020	<0.020	A
hf	E23(6)11/9A	31-Oct	09-Nov	152					A
hf	E23(7)11/9A	31-Oct	09-Nov	175					A
hf	E23(12)11/9A	31-Oct	09-Nov	166					A
hg	E24(3)11/9A	31-Oct	09-Nov	180					A
hg	E24(4)11/9A	31-Oct	09-Nov	174					A
hg	E24(5)11/9A	31-Oct	09-Nov	161					A
hg	E24(7)11/9A	31-Oct	09-Nov	162					A
hg	E24(15)11/9A*	31-Oct	09-Nov	161	<0.005	<0.010	<0.020	<0.020	A
hh	E25(2)11/9A	31-Oct	09-Nov	170					A
hh	E25(6)11/9A	31-Oct	09-Nov	170					A
hh	E25(7)11/9A	31-Oct	09-Nov	171					A
hh	E25(8)11/9A	31-Oct	09-Nov	176					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
hh	E25(10)11/9A*	31-Oct	09-Nov	174	<0.005	<0.010	<0.020	<0.020	A
hi	E26(6)11/9A*	31-Oct	09-Nov	175	<0.005	<0.010	<0.020	<0.020	A
hi	E26(8)11/9A	31-Oct	09-Nov	158					A
hi	E26(10)11/9A	31-Oct	09-Nov	158					A
hi	E26(11)11/9A	31-Oct	09-Nov	162					A
hi	E26(15)11/9A	31-Oct	09-Nov	158					A
hj	E27(3)11/9A	31-Oct	09-Nov	169					A
hj	E27(4)11/9A*	31-Oct	09-Nov	166	<0.005	<0.010	<0.020	<0.020	A
hj	E27(7)11/9A	31-Oct	09-Nov	165					A
hj	E27(10)11/9A	31-Oct	09-Nov	168					A
hj	E27(15)11/9A	31-Oct	09-Nov	148					A
hk	E27(8)11/9A	31-Oct	09-Nov	169					A
hk	E27(12)11/9A	31-Oct	09-Nov	175					A
hk	E28(2)11/9A*	31-Oct	09-Nov	158	<0.005	<0.010	<0.020	<0.020	A
hk	E28(3)11/9A	31-Oct	09-Nov	171					A
hk	E28(9)11/9A	31-Oct	09-Nov	158					A
hl	E28(7)11/9A	31-Oct	09-Nov	180					A
hl	E28(8)11/9A	31-Oct	09-Nov	175					A
hl	E28(11)11/9A	31-Oct	09-Nov	152					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
hl	E28(16)11/9A*	31-Oct	09-Nov	168	<0.005	<0.010	<0.020	<0.020	A
hl	E29(1)11/9A	16-Oct	09-Nov	172					A
hm	D29(2)11/6A	31-Oct	06-Nov	157					A
hm	E29(8)11/9A	16-Oct	09-Nov	154					A
hm	E29(10)11/9A*	16-Oct	09-Nov	167	<0.005	0.012	<0.020	<0.020	A
hm	E29(11)11/9A	16-Oct	09-Nov	174					A
hm	E29(12)11/9A	16-Oct	09-Nov	151					A
hn	M25(2)11/11A	26-Oct	11-Nov	167					A
hn	M25(4)11/11A*	26-Oct	11-Nov	162	<0.005	<0.010	<0.020	<0.020	A
hn	M25(8)11/11A	26-Oct	11-Nov	154					A
hn	M25(13)11/11A	26-Oct	11-Nov	177					A
hn	M25(14)11/11A	26-Oct	11-Nov	168					A
ho	N25(6)11/11A	26-Oct	11-Nov	155					A
ho	N25(9)11/11A	26-Oct	11-Nov	164					A
ho	N25(12)11/11A*	26-Oct	11-Nov	167	<0.005	<0.010	<0.020	<0.020	A
ho	N25(13)11/11A	26-Oct	11-Nov	162					A
ho	N25(15)11/11A	26-Oct	11-Nov	161					A
hp	O24(6)11/11A	29-Oct	11-Nov	156					A
hp	O24(7)11/11A	29-Oct	11-Nov	150					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
hp	O24(10)11/11A*	29-Oct	11-Nov	157	<0.005	<0.010	<0.020	<0.020	A
hp	O24(12)11/11A	29-Oct	11-Nov	147					A
hp	O24(14)11/11A	29-Oct	11-Nov	151					A
hq	O25(3)11/11A	27-Oct	11-Nov	164					A
hq	O25(4)11/11A	27-Oct	11-Nov	171					A
hq	O25(5)11/11A	27-Oct	11-Nov	155					A
hq	O25(6)11/11A	27-Oct	11-Nov	160					A
hq	O25(14)11/11A*	27-Oct	11-Nov	167	<0.005	0.015	<0.020	<0.020	A
hr	P21(8)11/11A	03-Nov	11-Nov	136					A
hr	P21(12)11/11A	03-Nov	11-Nov	144					A
hr	P22(5)11/11A	03-Nov	11-Nov	132					A
hr	P22(7)11/11A	03-Nov	11-Nov	167					A
hr	P22(13)11/5A*	03-Nov	05-Nov	161	<0.005	<0.010	<0.020	<0.020	A
hs	P22(12)11/11A	03-Nov	11-Nov	131					A
hs	P23(4)11/11A*	29-Oct	11-Nov	162	<0.005	<0.010	<0.020	<0.020	A
hs	P23(7)11/11A	29-Oct	11-Nov	156					A
hs	P23(10)11/11A	29-Oct	11-Nov	151					A
hs	P23(12)11/11A	29-Oct	11-Nov	149					A
ht	P24(1)11/11A	29-Oct	11-Nov	177					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
ht	P24(6)11/11A	29-Oct	11-Nov	168					A
ht	P24(8)11/11A	29-Oct	11-Nov	155					A
ht	P24(11)11/11A	29-Oct	11-Nov	170					A
ht	P24(13)11/5A*	29-Oct	05-Nov	146	<0.005	<0.010	<0.020	<0.020	A
hu	P25(1)11/11A*	27-Oct	11-Nov	158	<0.005	<0.010	<0.020	<0.020	A
hu	P25(2)11/11A	27-Oct	11-Nov	171					A
hu	P25(5)11/11A	27-Oct	11-Nov	170					A
hu	P25(7)11/11A	27-Oct	11-Nov	162					A
hu	P25(11)11/11A	27-Oct	11-Nov	160					A
hv	J28(6)11/12A*	31-Oct	12-Nov	178	<0.005	<0.010	<0.020	0.040	A
hv	J28(8)11/12A	31-Oct	12-Nov	174					A
hv	J28(9)11/12A	31-Oct	12-Nov	169					A
hv	J28(13)11/12A	31-Oct	12-Nov	162					A
hv	J28(15)11/12A	31-Oct	12-Nov	168					A
hw	J28(2)11/12A	31-Oct	12-Nov	179					A
hw	J28(3)11/12A	31-Oct	12-Nov	180					A
hw	K28(9)11/12A	30-Oct	12-Nov	178					A
hw	K28(12)11/12A	30-Oct	12-Nov	164					A
hw	K28(13)11/12A*	30-Oct	12-Nov	173	<0.005	<0.010	<0.020	0.026	A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
hx	K28(1)11/12A	30-Oct	12-Nov	167					A
hx	K28(3)11/12A	30-Oct	12-Nov	169					A
hx	K29(2)11/12A	15-Oct	12-Nov	182					A
hx	K29(5)11/12A	15-Oct	12-Nov	184					A
hx	K29(6)11/12A*	15-Oct	12-Nov	176	<0.005	<0.010	<0.020	<0.020	A
hy	J29(1)11/12A	15-Oct	12-Nov	171					A
hy	J29(2)11/12A*	15-Oct	12-Nov	175	<0.005	<0.010	<0.020	<0.020	A
hy	J29(10)11/12A	15-Oct	12-Nov	184					A
hy	J29(13)11/12A	15-Oct	12-Nov	170					A
hy	K29(13)11/12A	15-Oct	12-Nov	175					A
hz	K25(2)11/12A*	05-Nov	12-Nov	186	<0.005	0.012	<0.020	<0.020	A
hz	K25(7)11/12A	05-Nov	12-Nov	184					A
hz	K25(8)11/12A	05-Nov	12-Nov	181					A
hz	K25(12)11/12A	05-Nov	12-Nov	184					A
hz	K25(15)11/12A	05-Nov	12-Nov	177					A
ia	L25(1)11/12A	05-Nov	12-Nov	180					A
ia	L25(6)11/12A	05-Nov	12-Nov	184					A
ia	L25(10)11/12A*	05-Nov	12-Nov	164	<0.005	<0.010	<0.020	<0.020	A
ia	L25(11)11/12A	05-Nov	12-Nov	175					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
ia	L25(12)11/12A	05-Nov	12-Nov	180					A
ib	O29(8)2/5A	04-Dec	05-Feb	154					A
ib	O29(11)2/5A*	04-Dec	05-Feb	145	<0.005	<0.010	<0.020	<0.020	A
ib	O29(13)2/5A	04-Dec	05-Feb	144					A
ic	O29(3)2/5A	04-Dec	05-Feb	156					A
ic	O29(6)2/5A	04-Dec	05-Feb	164					A
ic	P29(11)2/5A	04-Dec	05-Feb	166					A
ic	P29(13)2/5A*	04-Dec	05-Feb	157	<0.005	0.011	<0.020	<0.020	A
ic	P29(16)2/5A	04-Dec	05-Feb	170					A
id	Q29(1)2/4A	28-Oct	04-Feb	159					A
id	Q29(3)2/4A	28-Oct	04-Feb	151					A
id	Q29(8)2/4A*	28-Oct	04-Feb	164	<0.005	0.010	<0.020	<0.020	A
id	Q29(10)2/4A	28-Oct	04-Feb	160					A
id	Q29(16)2/4A	28-Oct	04-Feb	160					A
ie	G30(2)11/16A	03-Nov	16-Nov	163					A
ie	G30(6)11/16A	03-Nov	16-Nov	153					A
ie	G30(7)11/16A	03-Nov	16-Nov	171					A
ie	G30(10)11/16A*	03-Nov	16-Nov	148	<0.005	<0.010	<0.020	0.120	A
ie	G30(11)11/16A	03-Nov	16-Nov	150					A

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(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
if	G30(13)11/16A*	03-Nov	16-Nov	125	<0.005	<0.010	0.120	2.100	CA
if	G30(14)11/16A	03-Nov	16-Nov	151					A
ig	J23(2)11/16A*	27-Oct	16-Nov	151	<0.005	<0.010	<0.020	<0.020	A
ig	J23(8)11/16A	27-Oct	16-Nov	170					A
ig	J23(11)11/16A	27-Oct	16-Nov	168					A
ig	J23(12)11/16A	27-Oct	16-Nov	144					A
ig	J23(14)11/16A	27-Oct	16-Nov	153					A
ih	J24(1)11/16A	27-Oct	16-Nov	164					A
ih	J24(6)11/16A	27-Oct	16-Nov	171					A
ih	J24(9)11/16A*	27-Oct	16-Nov	158	<0.005	<0.010	<0.020	<0.020	A
ih	J24(11)11/16A*	27-Oct	16-Nov	193			0.029		CA
ih	J24(15)11/16A	27-Oct	16-Nov	187					A
ii	J30(3)11/16A	15-Oct	16-Nov	139					A
ii	J30(7)11/16A	15-Oct	16-Nov	149					A
ii	J30(11)11/16A*	15-Oct	16-Nov	125			<0.020		CA
ii	J30(12)11/16A	15-Oct	16-Nov	144					A
ii	J31(1)11/16A*	03-Nov	16-Nov	148	<0.005	<0.010	<0.020	0.160	A
ij	J31(4)11/16A	03-Nov	16-Nov	134					A
ij	J31(7)11/16A*	03-Nov	16-Nov	148	<0.005	<0.010	0.028	0.240	A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
ij	J31(8)11/16A	03-Nov	16-Nov	159					A
ij	J31(15)11/16A	03-Nov	16-Nov	148					A
ik	O19(5)11/16A	02-Nov	16-Nov	161					A
ik	O19(9)11/16A	02-Nov	16-Nov	165					A
ik	O19(16)11/16A	02-Nov	16-Nov	133					A
ik	O20(5)11/16A*	02-Nov	16-Nov	134	<0.005	<0.010	<0.020	0.180	A
ik	O20(9)11/16A	02-Nov	16-Nov	130					A
il	Q24(4)11/16A	29-Oct	16-Nov	184					A
il	Q24(6)11/16A*	29-Oct	16-Nov	156	<0.005	<0.010	<0.020	<0.020	A
il	Q24(10)11/16A	29-Oct	16-Nov	146					A
il	Q24(16)11/16A	29-Oct	16-Nov	173					A
il	Q25(9)11/16A	29-Oct	16-Nov	182					A
il-Additional	Q25(5)2/5A	29-Oct	05-Feb	143					A
im	Q25(8)11/16A*	29-Oct	16-Nov	199	<0.005	0.013	<0.020	<0.020	CA
im	Q25(12)11/16A	29-Oct	16-Nov	187					A
im-Additional	Q25(7)2/5A	29-Oct	05-Feb	158					A
im-Additional	Q25(12)2/5A	29-Oct	05-Feb	171					A
im-Additional	Q25(14)2/5A	29-Oct	05-Feb	166					A
in	G19(2)11/17A*	05-Nov	17-Nov	155	<0.005	<0.010	<0.020	0.023	A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
in	G19(8)11/17A	05-Nov	17-Nov	148					A
in	G19(10)11/17A	05-Nov	17-Nov	172					A
in	G19(15)11/17A	05-Nov	17-Nov	139					A
in	H19(13)11/17A	05-Nov	17-Nov	163					A
io	H19(1)11/17A	05-Nov	17-Nov	145					A
io	H19(2)11/17A*	05-Nov	17-Nov	155	<0.005	<0.010	<0.020	0.040	A
io	H19(4)11/17A	05-Nov	17-Nov	146					A
io	H19(11)11/17A	05-Nov	17-Nov	138					A
io	I19(16)11/17A	05-Nov	17-Nov	139					A
ip	I19(2)11/17A	05-Nov	17-Nov	134					A
ip	I19(5)11/17A*	05-Nov	17-Nov	153	<0.005	<0.010	<0.020	0.041	A
ip	J19(6)11/17A	05-Nov	17-Nov	160					A
ip	J19(9)11/17A	05-Nov	17-Nov	137					A
ip	J19(14)11/17A	05-Nov	17-Nov	135					A
iq	J19(1)11/17A*	05-Nov	17-Nov	152	<0.005	<0.010	<0.020	0.040	A
iq	K19(3)11/17A	05-Nov	17-Nov	162					A
iq	K19(10)11/17A	05-Nov	17-Nov	155					A
iq	K19(13)11/17A	05-Nov	17-Nov	151					A
iq	K19(16)11/17A	05-Nov	17-Nov	151					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
ir	L19(6)11/17A	05-Nov	17-Nov	153					A
ir	L19(11)11/17A*	05-Nov	17-Nov	149	<0.005	<0.010	<0.020	0.051	A
ir	M19(9)11/17A	05-Nov	17-Nov	135					A
ir	M19(10)11/17A	05-Nov	17-Nov	160					A
ir	M19(14)11/17A	05-Nov	17-Nov	149					A
is	M19(2)11/17A	05-Nov	17-Nov	147					A
is	M19(5)11/17A	05-Nov	17-Nov	148					A
is	M19(7)11/17A*	05-Nov	17-Nov	131	<0.005	<0.010	<0.020	0.067	A
is	M19(8)11/17A	05-Nov	17-Nov	141					A
is	N19(7)11/17A	06-Nov	17-Nov	132					A
it	N19(4)11/17A	06-Nov	17-Nov	144					A
it	N19(12)11/17A	06-Nov	17-Nov	140					A
it	N20(8)11/17A	06-Nov	17-Nov	148					A
it	N20(10)11/17A	06-Nov	17-Nov	138					A
it	N20(13)11/17A*	06-Nov	17-Nov	152	<0.005	<0.010	0.033	0.051	A
iu	O20(7)11/17A	02-Nov	17-Nov	138					A
iu	O20(14)11/17A	02-Nov	17-Nov	133					A
iu	O20(15)11/17A*	02-Nov	17-Nov	119	<0.005	<0.010	<0.020	0.200	CA
iu	O21(6)11/17A	03-Nov	17-Nov	141					A

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(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
iu	O21(13)11/17A	03-Nov	17-Nov	132					A
iv	O21(7)11/17A	03-Nov	17-Nov	150					A
iv	O21(11)11/17A	03-Nov	17-Nov	136					A
iv	O21(15)11/17A	03-Nov	17-Nov	148					A
iv	O22(1)11/17A	03-Nov	17-Nov	141					A
iv	O22(5)11/17A*	03-Nov	17-Nov	153	<0.005	<0.010	<0.020	0.028	A
iw	O23(2)11/17A*	29-Oct	17-Nov	146	<0.005	<0.010	<0.020	0.031	A
iw	O23(3)11/17A	29-Oct	17-Nov	162					A
iw	O23(5)11/17A	29-Oct	17-Nov	136					A
iw	O23(10)11/17A	29-Oct	17-Nov	149					A
iw	O23(11)11/17A	29-Oct	17-Nov	143					A
ix	G17(10)11/18A*	11-Nov	18-Nov	154	<0.005	<0.010	<0.020	<0.020	A
ix	G17(15)11/18A	11-Nov	18-Nov	136					A
ix	G17(16)11/18A	11-Nov	18-Nov	149					A
ix	G18(12)11/18A	11-Nov	18-Nov	137					A
ix	G18(15)11/18A	11-Nov	18-Nov	144					A
ix-Additional	G17(13)12/15A	11-Nov	15-Dec	149					A
ix-Additional	G17(15)12/15A	11-Nov	15-Dec	140					A
iy	H17(2)11/18A	11-Nov	18-Nov	134					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
iy	H17(7)11/18A	11-Nov	18-Nov	147					A
iy	H17(8)11/18A*	11-Nov	18-Nov	146	<0.005	<0.010	<0.020	<0.020	A
iy	H17(11)11/18A	11-Nov	18-Nov	160					A
iy	H17(15)11/18A	11-Nov	18-Nov	148					A
iz	G18(1)11/18A	11-Nov	18-Nov	143					A
iz	G18(7)11/18A	11-Nov	18-Nov	150					A
iz	H18(3)11/18A*	11-Nov	18-Nov	151	<0.005	<0.010	0.025	<0.020	A
iz	H18(6)11/18A	11-Nov	18-Nov	148					A
iz	H18(16)11/18A	11-Nov	18-Nov	152					A
ja	I18(7)11/18A*	10-Nov	18-Nov	136	<0.005	<0.010	<0.020	<0.020	A
ja	I18(9)11/18A	10-Nov	18-Nov	151					A
ja	I18(12)11/18A	10-Nov	18-Nov	150					A
ja	J18(11)11/18A	11-Nov	18-Nov	141					A
ja	J18(14)11/18A	11-Nov	18-Nov	141					A
jb	J18(2)11/18A	11-Nov	18-Nov	154					A
jb	J18(4)11/18A	11-Nov	18-Nov	145					A
jb	K18(9)11/18A	11-Nov	18-Nov	149					A
jb	K18(11)11/18A	11-Nov	18-Nov	153					A
jb	K18(15)11/18A*	11-Nov	18-Nov	149	<0.005	<0.010	<0.020	<0.020	A

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(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
jc	L18(1)11/18A*	11-Nov	18-Nov	142	<0.005	<0.010	<0.020	0.068	A
jc	L18(7)11/18A	11-Nov	18-Nov	160					A
jc	L18(9)11/18A	11-Nov	18-Nov	146					A
jc	L18(13)11/18A	11-Nov	18-Nov	159					A
jc	M18(11)11/18A	04-Nov	18-Nov	130					A
jd	M18(2)11/18A*	04-Nov	18-Nov	130	<0.005	<0.010	<0.020	0.700	A
jd	N18(5)11/18A	04-Nov	18-Nov	142					A
jd	N18(8)11/18A	04-Nov	18-Nov	134					A
jd	N18(12)11/18A	04-Nov	18-Nov	138					A
jd	N18(13)11/18A	04-Nov	18-Nov	147					A
je	Q20(10)11/18A	30-Oct	18-Nov	160					A
je	Q20(13)11/18A	30-Oct	18-Nov	160					A
je	Q19(1)2/3A	30-Oct	03-Feb	189					A
je	Q19(7)2/3A*	30-Oct	03-Feb	180	<0.005	0.022	<0.020	<0.020	A
je	Q19(9)2/3A	30-Oct	03-Feb	183					A
je	Q19(14)2/3A	30-Oct	03-Feb	157					A
jf	Q20(4)11/18A	30-Oct	18-Nov	152					A
jf	Q20(12)11/18A	30-Oct	18-Nov	168					A
jf	Q20(14)11/18A	30-Oct	18-Nov	155					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
jf	Q21(1)11/18A	30-Oct	18-Nov	149					A
jf	Q21(10)11/18A*	30-Oct	18-Nov	155	<0.005	<0.010	<0.020	<0.020	A
jf-Additional	Q21(2)2/5A	30-Oct	05-Feb	147					A
jf-Additional	Q21(7)2/5A	30-Oct	05-Feb	145					A
jk	Q21(12)11/18A*	30-Oct	18-Nov	143	<0.005	<0.010	<0.020	<0.020	A
jk	Q22(1)11/18A	30-Oct	18-Nov	154					A
jk	Q22(7)11/18A	30-Oct	18-Nov	159					A
jk	Q22(9)11/18A	30-Oct	18-Nov	145					A
jk	Q22(13)11/18A	30-Oct	18-Nov	151					A
jh	Q23(3)11/18A	29-Oct	18-Nov	174					A
jh	Q23(5)11/18A	29-Oct	18-Nov	154					A
jh	Q23(11)11/18A	29-Oct	18-Nov	167					A
jh	Q23(12)11/18A*	29-Oct	18-Nov	163	<0.005	<0.010	<0.020	<0.020	A
jh	Q24(9)11/20A	29-Oct	20-Nov	164					A
ji	E12(2)11/20A*	10-Nov	20-Nov	147	<0.005	<0.010	<0.020	<0.020	A
ji	E12(10)11/20A	10-Nov	20-Nov	135					A
ji	E12(11)11/20A	10-Nov	20-Nov	167					A
ji	E13(1)11/20A	10-Nov	20-Nov	131					A
ji	E13(10)11/20A	10-Nov	20-Nov	136					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
jj	E13(4)11/20A*	10-Nov	20-Nov	153	<0.005	<0.010	<0.020	<0.020	A
jj	E14(2)11/20A	09-Nov	20-Nov	145					A
jj	E14(3)11/20A	09-Nov	20-Nov	155					A
jj	E14(9)11/20A	09-Nov	20-Nov	149					A
jj	E14(11)11/20A	09-Nov	20-Nov	142					A
jk	E15(1)11/20A*	09-Nov	20-Nov	149	<0.005	<0.010	0.036	<0.020	A
jk	E15(2)11/20A	09-Nov	20-Nov	142					A
jk	E15(14)11/20A	09-Nov	20-Nov	130					A
jk	E15(16)11/20A	09-Nov	20-Nov	141					A
jk	E16(5)11/20A	09-Nov	20-Nov	144					A
jl	E16(7)11/20A	09-Nov	20-Nov	130					A
jl	E16(11)11/20A*	09-Nov	20-Nov	136	<0.005	<0.010	<0.020	0.043	A
jl	E17(3)11/20A	11-Nov	20-Nov	139					A
jl	E17(6)11/20A	11-Nov	20-Nov	134					A
jl	E17(11)11/20A	11-Nov	20-Nov	134					A
jm	E18(2)11/20A	09-Nov	20-Nov	138					A
jm	E18(3)11/24A*	09-Nov	24-Nov	129	<0.005	<0.010	<0.020	0.031	CA
jm	E18(4)11/20A	09-Nov	20-Nov	135					A
jm	E18(6)11/20A	09-Nov	20-Nov	142					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
jm	E18(8)11/20A	09-Nov	20-Nov	148					A
jm-Additional	F18(1)12/15A	09-Nov	15-Dec	138					A
jn	F12(5)11/20A	10-Nov	20-Nov	130					A
jn	F12(6)11/20A*	10-Nov	20-Nov	133	<0.005	<0.010	0.024	0.300	A
jo	F12(4)11/20A*	10-Nov	20-Nov	156	<0.005	<0.010	<0.020	<0.020	A
jo	F13(1)11/20A	10-Nov	20-Nov	149					A
jo	F13(11)11/20A	10-Nov	20-Nov	158					A
jo	F13(12)11/20A	10-Nov	20-Nov	152					A
jo	F13(14)11/20A	10-Nov	20-Nov	149					A
jp	F14(3)11/20A*	09-Nov	20-Nov	135	<0.005	<0.010	<0.020	0.088	A
jp	F14(4)11/20A	09-Nov	20-Nov	137					A
jp	F14(8)11/20A	09-Nov	20-Nov	135					A
jp	F15(10)11/20A	09-Nov	20-Nov	150					A
jp	F15(13)11/20A	09-Nov	20-Nov	141					A
jq	F15(12)11/20A	09-Nov	20-Nov	153					A
jq	F15(15)11/20A	09-Nov	20-Nov	151					A
jq	F16(2)11/20A	09-Nov	20-Nov	147					A
jq	F16(7)11/20A	09-Nov	20-Nov	131					A
jq-Additional	F16(8)12/15A	09-Nov	15-Dec	132					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
jq-Additional	F16(9)12/15A	09-Nov	15-Dec	131					A
jq-Additional	F16(13)12/15A	09-Nov	15-Dec	146					A
jq-Additional	F16(15)12/15A*	09-Nov	15-Dec	132	<0.005	<0.010	<0.020	0.057	A
jq-Additional	F17(1)12/15A	11-Dec	15-Dec	152					A
jr	F18(7)11/20A	09-Nov	20-Nov	132					A
jr	F18(10)11/20A	09-Nov	20-Nov	139					A
jr	F18(13)11/20A	09-Nov	20-Nov	131					A
jr	F17(6)12/15A	11-Dec	15-Dec	148					A
jr	F17(7)12/15A*	11-Dec	15-Dec	126	<0.005	<0.010	<0.020	0.148	CA
jr	F17(12)12/15A	11-Dec	15-Dec	145					A
jr-Additional	F18(9)12/15A	09-Nov	15-Dec	121			<0.020		CA
js	G13(7)11/20A	12-Nov	20-Nov	147					A
js	G13(16)11/20A	12-Nov	20-Nov	148					A
js	G14(1)11/20A	12-Nov	20-Nov	153					A
js	G14(2)11/20A	12-Nov	20-Nov	148					A
js	G14(10)11/20A*	12-Nov	20-Nov	145	<0.005	<0.010	0.035	<0.020	A
jt	G14(4)11/20A	12-Nov	20-Nov	149					A
jt	G14(15)11/20A	12-Nov	20-Nov	147					A
jt	G15(4)11/20A*	12-Nov	20-Nov	150	<0.005	0.026	<0.020	<0.020	A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
jt	G15(10)11/20A	12-Nov	20-Nov	147					A
jt	G15(13)11/20A	12-Nov	20-Nov	143					A
ju	G16(6)11/20A*	11-Nov	20-Nov	150	<0.005	<0.010	<0.020	<0.020	A
ju	G16(9)11/20A	11-Nov	20-Nov	145					A
ju	G16(11)11/20A	11-Nov	20-Nov	143					A
ju-Additional	G16(12)12/15A	11-Nov	15-Dec	135					A
ju-Additional	G16(15)12/15A	11-Nov	15-Dec	147					A
jv	H13(4)11/20A	12-Nov	20-Nov	164					A
jv	H13(8)11/20A*	12-Nov	20-Nov	160	<0.005	<0.010	<0.020	0.320	A
jv	H13(12)11/20A	12-Nov	20-Nov	157					A
jv	H14(5)11/20A	12-Nov	20-Nov	150					A
jv	H14(9)11/20A	12-Nov	20-Nov	150					A
jw	H14(11)11/20A*	12-Nov	20-Nov	159	<0.005	<0.010	0.045	<0.020	A
jx	H25(2)11/23A	04-Nov	23-Nov	183					A
jx	H25(3)11/23A*	04-Nov	23-Nov	194			<0.020		CA
jx	H25(6)11/23A	04-Nov	23-Nov	187					A
jx	H25(7)11/23A*	04-Nov	23-Nov	188	<0.005	0.013	0.024	0.026	A
jx	H25(11)11/23A*	04-Nov	23-Nov	203			<0.020		CA
jj	H26(5)11/23A	04-Nov	23-Nov	174					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
iy	H26(9)11/23A*	04-Nov	23-Nov	196			0.020		CA
iy	H26(10)11/23A	04-Nov	23-Nov	187					A
iy	H26(14)11/23A	04-Nov	23-Nov	185					A
iy	H27(9)11/23A*	04-Nov	23-Nov	183	<0.005	<0.010	<0.020	<0.020	A
jz	I25(1)11/23A*	05-Nov	23-Nov	212			<0.020		CA
jz	I25(7)11/23A	05-Nov	23-Nov	189					A
jz	I25(11)11/23A*	05-Nov	23-Nov	191	<0.005	0.010	<0.020	<0.020	A
jz	I25(12)11/23A	05-Nov	23-Nov	191					A
jz	I25(14)11/23A	05-Nov	23-Nov	190					A
ka	J25(7)11/23A*	05-Nov	23-Nov	207	<0.005	<0.010	<0.020	0.079	CA
ka	J25(8)11/23A*	05-Nov	23-Nov	214			0.022		CA
ka	J25(9)11/23A*	05-Nov	23-Nov	210			<0.020		CA
ka	J25(14)11/23A*	05-Nov	23-Nov	204			0.023		CA
ka	J26(1)11/23A*	05-Nov	23-Nov	209			<0.020		CA
kb	K26(5)11/23A	05-Nov	23-Nov	184					A
kb	L26(1)11/23A*	05-Nov	23-Nov	178	<0.005	<0.010	<0.020	0.058	A
kb	L26(6)11/23A	05-Nov	23-Nov	172					A
kb	L26(14)11/23A	05-Nov	23-Nov	173					A
kc	M26(1)11/23A	05-Nov	23-Nov	171					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
kc	M26(2)11/23A	05-Nov	23-Nov	182					A
kc	M26(9)11/23A	05-Nov	23-Nov	172					A
kc	N26(9)11/23A	05-Nov	23-Nov	175					A
kc	N26(14)11/23A*	05-Nov	23-Nov	179	<0.005	<0.010	<0.020	0.070	A
kd	N26(1)11/23A	05-Nov	23-Nov	171					A
kd	N26(6)11/23A	05-Nov	23-Nov	168					A
kd	O26(5)11/23A	05-Nov	23-Nov	183					A
kd	O26(6)11/23A*	05-Nov	23-Nov	200	<0.005	<0.010	<0.020	<0.020	CA
kd	O26(10)11/23A	05-Nov	23-Nov	179					A
ke	O26(3)11/23A	05-Nov	23-Nov	184					A
ke	P26(7)11/23A	05-Nov	23-Nov	186					A
ke	P26(8)11/23A	05-Nov	23-Nov	182					A
ke	P26(9)11/23A	05-Nov	23-Nov	186					A
ke	P26(11)11/23A*	05-Nov	23-Nov	181	<0.005	0.017	<0.020	<0.020	A
ke-Additional	P26(4)2/5A	05-Nov	05-Feb	149					A
ke-Additional	P26(6)2/5A	05-Nov	05-Feb	162					A
ke-Additional	P26(9)2/5A	05-Nov	05-Feb	156					A
ke-Additional	P26(15)2/5A	05-Nov	05-Feb	160					A
kf	Q26(6)11/23A*	05-Nov	23-Nov	199	<0.005	<0.010	<0.020	<0.020	CA

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
kf	Q26(7)11/23A	05-Nov	23-Nov	187					A
kf	Q26(10)11/23A*	05-Nov	23-Nov	212	<0.005	0.011	<0.020	<0.020	CA
kf	Q26(11)11/23A*	05-Nov	23-Nov	213	<0.005	0.011	<0.020	<0.020	CA
kf	Q26(12)11/23A*	05-Nov	23-Nov	201	<0.005	<0.010	<0.020	0.025	CA
kf-Additional	Q26(1)2/5A	05-Nov	05-Feb	171					A
kf-Additional	Q26(4)2/5A	05-Nov	05-Feb	159					A
kf-Additional	Q26(11)2/5A	05-Nov	05-Feb	169					A
kf-Additional	Q26(14)2/5A	05-Nov	05-Feb	180					A
kg	H27(4)11/24A	04-Nov	24-Nov	160					A
kg	H27(10)11/24A*	04-Nov	24-Nov	211	<0.005	0.014	<0.020	<0.020	CA
kg	H27(11)11/24A*	04-Nov	24-Nov	173	<0.005	<0.010	<0.020	<0.020	A
kg	H27(14)11/24A	04-Nov	24-Nov	179					A
kg	H27(15)11/24A	04-Nov	24-Nov	173					A
kh	I27(3)11/24A*	04-Nov	24-Nov	201	<0.005	<0.010	<0.020	<0.020	CA
kh	I27(11)11/24A	04-Nov	24-Nov	188					A
kh	I27(13)11/24A*	04-Nov	24-Nov	153	<0.005	<0.010	<0.020	<0.020	A
kh	I27(16)11/24A	04-Nov	24-Nov	177					A
kh	J27(12)11/24A	31-Oct	24-Nov	164					A
ki	J27(4)11/24A	31-Oct	24-Nov	187					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
ki	K27(15)11/24A	30-Oct	24-Nov	179					A
ki	K27(16)11/24A	30-Oct	24-Nov	181					A
ki	L27(4)11/24A*	30-Oct	24-Nov	150	<0.005	<0.010	<0.020	0.092	A
ki	L27(8)11/24A*	30-Oct	24-Nov	214			<0.020		CA
kj	L28(7)11/24A*	30-Oct	24-Nov	184	<0.005	<0.010	<0.020	<0.020	A
kj	L28(9)11/24A	30-Oct	24-Nov	184					A
kj	L28(10)11/24A	30-Oct	24-Nov	176					A
kj	L28(12)11/24A*	30-Oct	24-Nov	205			<0.020		CA
kj	L28(15)11/24A	30-Oct	24-Nov	174					A
kk	L28(1)11/24A*	30-Oct	24-Nov	204			<0.020		CA
kk	L28(2)11/24A*	30-Oct	24-Nov	207			<0.020		CA
kk	L28(5)11/24A	30-Oct	24-Nov	189					A
kk	M28(13)11/24A*	30-Oct	24-Nov	197			<0.020		CA
kk	M28(14)11/24A*	30-Oct	24-Nov	188	<0.005	<0.010	<0.020	<0.020	A
kl	M28(1)11/24A	30-Oct	24-Nov	187					A
kl	N28(6)12/7A	04-Dec	07-Dec	177					A
kl	N28(7)12/7A*	04-Dec	07-Dec	172	<0.005	<0.010	<0.020	<0.020	A
kl	N28(9)12/7A	04-Dec	07-Dec	180					A
kl	N28(10)12/7A	04-Dec	07-Dec	183					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
kl	N28(13)12/7A	04-Dec	07-Dec	189					A
km	M27(12)11/24A*	30-Oct	24-Nov	135	<0.005	<0.010	<0.020	0.880	A
km	M28(4)11/24A	30-Oct	24-Nov	186					A
km	M28(6)11/24A	30-Oct	24-Nov	188					A
km	M28(7)11/24A	30-Oct	24-Nov	186					A
km	M28(10)11/24A*	30-Oct	24-Nov	213			<0.020		CA
kn	N28(3)2/5A	04-Dec	05-Feb	162					A
kn	N28(8)2/5A	04-Dec	05-Feb	158					A
kn	O28(4)2/5A	04-Dec	05-Feb	154					A
kn	O28(8)2/5A*	04-Dec	05-Feb	154	<0.005	<0.010	<0.020	<0.020	A
kn	O28(11)2/5A	04-Dec	05-Feb	161					A
kn	O28(16)2/5A	04-Dec	05-Feb	167					A
ko	P28(7)2/4A	04-Dec	04-Feb	141	<0.005	<0.010	<0.020	<0.020	A
ko	P28(12)2/4A	04-Dec	04-Feb	161					A
ko	P28(16)2/5A	04-Dec	05-Feb	155					A
ko	P29(3)2/4A	04-Dec	04-Feb	152					A
ko	P29(6)2/4A	04-Dec	04-Feb	146					A
ko	P29(8)2/4A	04-Dec	04-Feb	152					A
kp	P28(8)2/4A	04-Dec	04-Feb	157					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
kp	Q28(8)2/4A	04-Dec	04-Feb	159					A
kp	Q28(16)2/4A*	04-Dec	04-Feb	161	<0.005	0.016	<0.020	<0.020	A
kq	D21(11)11/30A	02-Nov	30-Nov	135					A
kq	D22(5)11/30A	02-Nov	30-Nov	136					A
kq	D22(8)11/30A	02-Nov	30-Nov	157					A
kq	D22(11)11/30A*	02-Nov	30-Nov	148	<0.005	<0.010	<0.020	0.130	A
kq	D22(14)11/30A	02-Nov	30-Nov	146					A
kr	D21(3)11/30A	02-Nov	30-Nov	151					A
kr	D22(3)11/30A	02-Nov	30-Nov	157					A
kr	E21(12)11/30A	02-Nov	30-Nov	152					A
kr	E22(13)11/30A*	02-Nov	30-Nov	143	<0.005	<0.010	<0.020	0.054	A
kr	E22(15)11/30A	02-Nov	30-Nov	150					A
ks	E21(8)11/30A	02-Nov	30-Nov	149					A
ks	E22(2)11/30A	02-Nov	30-Nov	142					A
ks	E22(6)11/30A	02-Nov	30-Nov	151					A
ks	F21(12)11/30A	02-Nov	30-Nov	144					A
ks	F22(15)11/30A*	02-Nov	30-Nov	142	<0.005	<0.010	<0.020	0.048	A
kt	F21(8)11/30A	02-Nov	30-Nov	136					A
kt	F22(2)11/30A	02-Nov	30-Nov	140					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
kt	F22(8)11/30A*	02-Nov	30-Nov	143	<0.005	<0.010	<0.020	0.039	A
kt	F22(9)11/30A	02-Nov	30-Nov	137					A
kt	G22(13)11/30A	02-Nov	30-Nov	134					A
ku	G22(1)11/30A*	02-Nov	30-Nov	132	<0.005	<0.010	<0.020	0.330	A
ku	G22(7)11/30A	02-Nov	30-Nov	144					A
ku	G22(9)11/30A	02-Nov	30-Nov	130					A
ku	H22(13)11/30A	02-Nov	30-Nov	132					A
ku	H22(16)11/30A	02-Nov	30-Nov	145					A
kv	H22(7)11/30A	02-Nov	30-Nov	159					A
kv	H22(8)11/30A	02-Nov	30-Nov	136					A
kv	H22(9)11/30A*	02-Nov	30-Nov	138	<0.005	<0.010	<0.020	0.160	A
kv	H22(12)11/30A	02-Nov	30-Nov	148					A
kv	I22(15)11/30A	02-Nov	30-Nov	142					A
kw	I22(3)12/7A	03-Dec	07-Dec	160					A
kw	I22(6)12/7A*	03-Dec	07-Dec	147	<0.005	<0.010	<0.020	0.190	A
kw	I22(7)12/7A	03-Dec	07-Dec	145					A
kw	I22(11)12/7A	03-Dec	07-Dec	146					A
kw	J22(15)12/7A	03-Dec	07-Dec	148					A
kx	J22(6)12/7A	03-Dec	07-Dec	159					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
kx	J22(9)12/7A	03-Dec	07-Dec	163					A
kx	J22(10)12/7A	03-Dec	07-Dec	156					A
kx	K22(11)12/7A	03-Dec	07-Dec	136					A
kx	K22(15)12/7A*	03-Dec	07-Dec	154	<0.005	<0.010	<0.020	0.053	A
ky	K22(3)11/30A	13-Nov	30-Nov	153					A
ky	L22(12)11/30A*	13-Nov	30-Nov	158	<0.005	<0.010	<0.020	<0.020	A
ky	L22(16)11/30A	13-Nov	30-Nov	152					A
ky	M22(8)11/30A	13-Nov	30-Nov	157					A
ky	M22(12)11/30A	13-Nov	30-Nov	159					A
kz	M21(2)11/30A	13-Nov	30-Nov	145					A
kz	N21(4)11/30A	13-Nov	30-Nov	144					A
kz	N21(5)11/30A*	13-Nov	30-Nov	142	<0.005	<0.010	<0.020	<0.020	A
kz	N21(11)11/30A	13-Nov	30-Nov	156					A
kz	N21(15)11/30A	13-Nov	30-Nov	158					A
la	M22(1)11/30A	13-Nov	30-Nov	171					A
la	N22(2)11/30A*	13-Nov	30-Nov	144	<0.005	<0.010	0.024	0.044	A
la	N22(4)11/30A	13-Nov	30-Nov	154					A
la	N22(15)11/30A	13-Nov	30-Nov	172					A
la	N22(16)11/30A	13-Nov	30-Nov	168					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
lb	M20(3)11/30A	13-Nov	30-Nov	167					A
lb	M20(6)11/30A*	13-Nov	30-Nov	133	<0.005	<0.010	<0.020	0.047	A
lb	M20(8)11/30A	13-Nov	30-Nov	164					A
lb	M20(9)11/30A	13-Nov	30-Nov	148					A
lb	M21(5)11/30A	13-Nov	30-Nov	163					A
lb-Additional	M20(2)2/3A	13-Nov	03-Feb	143					A
lb-Additional	M20(10)2/3A	13-Nov	03-Feb	143					A
lb-Additional	M20(8)2/10A*	13-Nov	10-Feb	156					A
lc	L20(1)11/30A	13-Nov	30-Nov	139					A
lc	L20(3)11/30A*	13-Nov	30-Nov	120			0.039		CA
lc	L20(5)11/30A*	13-Nov	30-Nov	139	<0.005	<0.010	<0.020	<0.020	A
lc	L20(7)11/30A	13-Nov	30-Nov	147					A
lc	L20(15)11/30A	13-Nov	30-Nov	135					A
lc-Additional	L20(1)2/3A	13-Nov	03-Feb	149					A
lc-Additional	L20(7)2/3A	13-Nov	03-Feb	128			<0.020		CA
lc-Additional	L20(13)2/3A	13-Nov	03-Feb	144					A
ld	E19(7)2/10A	16-Nov	10-Feb	147					A
ld	E19(9)2/10A*	16-Nov	10-Feb	148					A
ld	E19(15)2/10A	16-Nov	10-Feb	151					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
le	E19(2)12/1A	16-Nov	01-Dec	141					A
le	F19(3)12/1A	16-Nov	01-Dec	125			<0.020		CA
le	F19(8)12/1A*	16-Nov	01-Dec	143	<0.005	<0.010	<0.020	0.037	A
le	F19(12)12/1A	16-Nov	01-Dec	142					A
le	F19(13)12/1A	16-Nov	01-Dec	140					A
le-Additional	E19(3)2/10A	16-Nov	10-Feb	157					A
le-Additional	F19(1)2/10A	16-Nov	10-Feb	181					A
le-Additional	F19(3)2/10A*	16-Nov	10-Feb	154					A
le-Additional	F19(6)2/10A	16-Nov	10-Feb	177					A
le-Additional	F19(14)2/10A	16-Nov	10-Feb	140					A
lf	H20(1)12/1A	13-Nov	01-Dec	156					A
lf	H20(9)12/1A*	13-Nov	01-Dec	141	<0.005	<0.010	<0.020	<0.020	A
lf	I20(5)12/1A	13-Nov	01-Dec	138					A
lf	J20(8)12/1A	13-Nov	01-Dec	126			<0.020		CA
lf	J20(12)12/1A	13-Nov	01-Dec	132					A
lf-Additional	I20(1)2/3A	13-Nov	03-Feb	127			0.044		CA
lf-Additional	I20(6)2/3A	13-Nov	03-Feb	129			<0.020		CA
lf-Additional	I20(13)2/3A	13-Nov	03-Feb	149					A
lf-Additional	J20(14)2/3A	13-Nov	03-Feb	140					A
lg	J20(2)12/1A*	13-Nov	01-Dec	128	<0.005	<0.010	0.028	<0.020	CA

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
Ig	K20(1)12/1A	13-Nov	01-Dec	149					A
Ig	K20(6)12/1A	13-Nov	01-Dec	138					A
Ig	K20(9)12/1A	13-Nov	01-Dec	141					A
Ig	K20(14)12/1A	13-Nov	01-Dec	147					A
Ig-Additional	J20(3)2/3A	13-Nov	03-Feb	119			<0.020		CA
Ig-Additional	J20(5)2/3A	13-Nov	03-Feb	131					A
Ig-Additional	K20(3)2/3A	13-Nov	03-Feb	130					A
Ig-Additional	K20(6)2/3A	13-Nov	03-Feb	141					A
Ig-Additional	K20(14)2/3A	13-Nov	03-Feb	123			0.034		CA
Ih	J13(1)12/3A*	17-Nov	03-Dec	144	<0.005	<0.010	0.026	<0.020	A
Ih	J13(2)12/3A	17-Nov	03-Dec	141					A
Ih	K13(3)12/3A	17-Nov	03-Dec	150					A
Ih	K13(7)12/3A*	17-Nov	03-Dec	118			<0.020		CA
Ih	K13(13)12/3A	17-Nov	03-Dec	149					A
II	L13(9)12/3A	17-Nov	03-Dec	141					A
II	M13(7)12/3A	16-Nov	03-Dec	148					A
II	M13(11)12/3A*	16-Nov	03-Dec	134	<0.005	<0.010	0.022	<0.020	A
II	M13(12)12/3A	16-Nov	03-Dec	138					A
II	M13(16)12/3A	16-Nov	03-Dec	130					A
II-Additional	L13(3)12/4A	16-Nov	04-Dec	130					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
Ii-Additional	L13(11)12/4A	16-Nov	04-Dec	150					A
Ij	N13(3)12/4A*	16-Nov	04-Dec	122			0.035		CA
Ij	N13(6)12/4A	16-Nov	04-Dec	150					A
Ij	N13(15)12/3A*	16-Nov	03-Dec	132	<0.005	<0.010	0.029	<0.020	A
Ij-Additional	N13(6)12/14A	16-Nov	14-Dec	142					A
Ij-Additional	N13(13)12/14A*	16-Nov	14-Dec	128			<0.020		CA
Ik	J14(4)12/3A*	13-Nov	03-Dec	140	<0.005	<0.010	<0.020	<0.020	A
Ik	K14(6)12/3A	17-Nov	03-Dec	138					A
Ik	K14(8)12/3A	17-Nov	03-Dec	130					A
Ik	K14(11)12/3A	17-Nov	03-Dec	151					A
Ik	K14(13)12/3A	17-Nov	03-Dec	148					A
Ii	L14(1)12/3A	17-Nov	03-Dec	134					A
Ii	L14(6)12/3A	17-Nov	03-Dec	137					A
Ii	L14(10)12/3A*	17-Nov	03-Dec	152	<0.005	<0.010	<0.020	<0.020	A
Ii	L14(12)12/3A	17-Nov	03-Dec	138					A
Ii	M14(12)12/3A*	16-Nov	03-Dec	121			<0.020		CA
Im	M14(3)12/3A*	16-Nov	03-Dec	134	<0.005	<0.010	<0.020	<0.020	A
Im	M14(5)12/3A	16-Nov	03-Dec	136					A
In	P18(1)12/3A*	19-Nov	03-Dec	146	<0.005	<0.010	<0.020	<0.020	A
In	P18(7)12/3A	19-Nov	03-Dec	160					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
In	Q18(9)12/3A	19-Nov	03-Dec	171					A
In	Q18(10)12/3A	19-Nov	03-Dec	166					A
In	Q18(12)12/3A	19-Nov	03-Dec	169					A
In-Additional	Q18(6)2/3A	19-Nov	03-Feb	183					A
In-Additional	P18(4)2/3A	19-Nov	03-Feb	180					A
In-Additional	P18(6)2/3A	19-Nov	03-Feb	156					A
In-Additional	Q18(11)2/18A*	19-Nov	18-Feb	166	<0.005	0.024	<0.020	<0.020	A
lo	Q18(2)12/3A*	19-Nov	03-Dec	164	<0.005	<0.010	<0.020	<0.020	A
lo	R18(16)2/11A	19-Nov	11-Feb	137					A
lo	R19(5)2/11A	19-Nov	11-Feb	131					A
lo	R19(12)2/11A*	19-Nov	11-Feb	134	<0.005	<0.010	<0.020	<0.020	A
lo	R19(14)2/11A	19-Nov	11-Feb	137					A
lo	R20(2)2/11A	19-Nov	11-Feb	152					A
lo	R20(10)2/11A	19-Nov	11-Feb	148					A
lo	R20(13)2/11A	19-Nov	11-Feb	144					A
lp	R20(8)2/5A	19-Nov	05-Feb	153					A
lp	R20(16)2/5A	19-Nov	05-Feb	143					A
lp	R21(6)2/5A	19-Nov	05-Feb	159					A
lp	R21(8)2/5A	19-Nov	05-Feb	143					A
lp	R21(9)2/5A*	19-Nov	05-Feb	158	<0.005	0.019	<0.020	<0.020	A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
lp	R21(11)2/5A	19-Nov	05-Feb	154					A
lp	R21(15)2/5A	19-Nov	05-Feb	150					A
lp	R22(9)2/5A	19-Nov	05-Feb	155					A
lq	R22(10)12/3A	19-Nov	03-Dec	161					A
lq	R22(11)12/3A*	19-Nov	03-Dec	164	<0.005	<0.010	<0.020	<0.020	A
lq	R22(16)12/3A	19-Nov	03-Dec	174					A
lq	R23(10)12/3A	19-Nov	03-Dec	172					A
lq	R23(11)12/3A	19-Nov	03-Dec	161					A
lr	R23(12)12/3A	19-Nov	03-Dec	178					A
lr	R24(5)12/3A	19-Nov	03-Dec	173					A
lr	R24(7)12/3A*	19-Nov	03-Dec	169	<0.005	0.010	<0.020	<0.020	A
lr	R24(10)12/3A	19-Nov	03-Dec	176					A
lr	R24(15)12/3A	19-Nov	03-Dec	165					A
ls	R25(6)2/5A	19-Nov	05-Feb	176					A
ls	R25(9)2/5A*	19-Nov	05-Feb	176	<0.005	0.016	<0.020	<0.020	A
ls	R25(12)2/5A	19-Nov	05-Feb	189					A
ls	R25(15)2/5A	19-Nov	05-Feb	186					A
ls	R26(9)2/5A	19-Nov	05-Feb	170					A
lt	R26(6)2/5A	19-Nov	05-Feb	163					A
lt	R26(12)2/5A	19-Nov	05-Feb	179					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
lt	R26(14)2/5A	19-Nov	05-Feb	178					A
lt	R27(1)2/5A	19-Nov	05-Feb	141					A
lt	R27(9)2/5A*	19-Nov	05-Feb	175	<0.005	<0.010	0.176	0.063	A
lt	S27(5)2/5A	27-Jan	05-Feb	139					A
lt	S27(13)2/5A	27-Jan	05-Feb	138					A
lu	I13(9)12/4A	13-Nov	04-Dec	158					A
lu	I13(13)12/4A	13-Nov	04-Dec	162					A
lu	J13(7)12/4A	17-Nov	04-Dec	150					A
lu	J13(10)12/4A*	17-Nov	04-Dec	154	<0.005	<0.010	<0.020	<0.020	A
lu	J13(14)12/4A	17-Nov	04-Dec	157					A
lv	N14(4)12/4A*	20-Nov	04-Dec	135	<0.005	<0.010	0.029	0.026	A
lv	N14(6)12/4A	20-Nov	04-Dec	150					A
lv	N14(9)12/4A	20-Nov	04-Dec	172					A
lv	O14(9)12/4A	20-Nov	04-Dec	171					A
lv	O14(15)12/4A	20-Nov	04-Dec	184					A
lw	O13(4)12/4A	20-Nov	04-Dec	162					A
lw	O13(8)12/4A	20-Nov	04-Dec	161					A
lw	O13(10)12/4A*	20-Nov	04-Dec	160	<0.005	0.017	<0.020	<0.020	A
lw	O13(11)12/4A	20-Nov	04-Dec	180					A
lw	O14(6)12/4A	20-Nov	04-Dec	173					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
Iw-Additional	O13(2)12/16A	20-Nov	16-Dec	154					A
Iw-Additional	O13(14)12/16A	20-Nov	16-Dec	160					A
Ix	P12(8)12/7A*	18-Nov	07-Dec	149	<0.005	<0.010	<0.020	<0.020	A
Ix	P12(10)12/7A	18-Nov	07-Dec	131					A
Ix	P12(15)12/7A	18-Nov	07-Dec	148					A
Ix	P13(6)12/7A	20-Nov	07-Dec	172					A
Ix	P13(13)12/7A	20-Nov	07-Dec	186					A
Iy	P13(11)12/7A*	20-Nov	07-Dec	158	<0.005	0.013	<0.020	<0.020	A
Iy	P14(2)12/7A	20-Nov	07-Dec	119			<0.020		CA
Iy	P14(7)12/7A	20-Nov	07-Dec	163					A
Iy	P14(9)12/7A	20-Nov	07-Dec	162					A
Iy	P14(15)12/7A	20-Nov	07-Dec	186					A
Iy-Additional	P14(6)12/14A	20-Nov	14-Dec	166					A
Iz	O8(2)12/8A	20-Nov	08-Dec	147					A
Iz	O8(6)12/8A*	20-Nov	08-Dec	148	<0.005	<0.010	0.038	<0.020	A
Iz	O8(8)12/8A	20-Nov	08-Dec	146					A
Iz	O8(11)12/8A	20-Nov	08-Dec	152					A
Iz	O9(6)12/8A	20-Nov	08-Dec	149					A
Iz	O9(13)12/8A	20-Nov	08-Dec	144					A
ma	O9(8)12/8A	20-Nov	08-Dec	150					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
ma	O10(4)12/8A	18-Nov	08-Dec	130					A
ma	O10(6)12/8A*	18-Nov	08-Dec	153	<0.005	<0.010	<0.020	<0.020	A
ma	O10(11)12/8A	18-Nov	08-Dec	135					A
ma	O11(9)12/8A	18-Nov	08-Dec	125			0.050		CA
mb	O11(3)12/16A	18-Nov	16-Dec	150					A
mb	O11(12)12/16A	18-Nov	16-Dec	157					A
mb	O12(3)12/16A	10-Dec	16-Dec	157					A
mb	O12(10)12/16A	10-Dec	16-Dec	156					A
mb	O12(16)12/16A*	10-Dec	16-Dec	156	<0.005	<0.010	<0.020	<0.020	A
mc	P8(3)12/8A	23-Nov	08-Dec	131					A
mc	P8(6)12/8A	23-Nov	08-Dec	137					A
mc	P8(9)12/8A*	23-Nov	08-Dec	124	<0.005	<0.010	<0.020	0.044	CA
mc	P8(12)12/8A	23-Nov	08-Dec	138					A
mc	P9(1)12/8A	20-Nov	08-Dec	134					A
md	P9(2)12/8A*	20-Nov	08-Dec	122			0.042		CA
md	P9(8)12/8A*	20-Nov	08-Dec	126			0.037		CA
md	P9(14)12/8A*	20-Nov	08-Dec	141	<0.005	<0.010	<0.020	<0.020	A
md	P10(2)12/8A	20-Nov	08-Dec	146					A
md	P10(10)12/8A	20-Nov	08-Dec	153					A
me	P10(16)12/16A	20-Nov	16-Dec	131		*			A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
me	P11(2)12/16A	10-Dec	16-Dec	152					A
me	P11(8)12/16A*	10-Dec	16-Dec	141	<0.005	<0.010	<0.020	<0.020	A
me	P11(15)12/16A	10-Dec	16-Dec	141					A
me	P12(2)12/16A	18-Nov	16-Dec	134					A
mf	E10(8)12/14A	10-Dec	14-Dec	155					A
mf	E11(3)12/14A	10-Dec	14-Dec	166					A
mf	E11(6)12/14A	10-Dec	14-Dec	156					A
mf	E11(12)12/14A	10-Dec	14-Dec	162					A
mf	E11(14)12/14A*	10-Dec	14-Dec	146	<0.005	<0.010	<0.020	0.032	A
mg	F10(4)12/9A	16-Nov	09-Dec	134					A
mg	F10(16)12/14A	10-Dec	14-Dec	152					A
mg	F11(3)12/14A	10-Dec	14-Dec	156					A
mg	F11(5)12/14A	10-Dec	14-Dec	137					A
mg	F11(11)12/14A*	10-Dec	14-Dec	157	<0.005	<0.010	0.020	0.024	A
mh	G12(1)12/9A	12-Nov	09-Dec	140					A
mh	G12(4)12/9A*	12-Nov	09-Dec	154	<0.005	<0.010	<0.020	<0.020	A
mh	G12(5)12/9A	12-Nov	09-Dec	155					A
mh	H12(12)12/9A	12-Nov	09-Dec	144					A
mh	H12(13)12/9A	12-Nov	09-Dec	160					A
mi	H12(1)12/9A	12-Nov	09-Dec	177					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
mi	H12(6)12/9A*	12-Nov	09-Dec	164	<0.005	<0.010	<0.020	<0.020	A
mi	H12(7)12/9A	12-Nov	09-Dec	159					A
mi	I12(4)12/9A	13-Nov	09-Dec	160					A
mi	I12(6)12/9A	13-Nov	09-Dec	179					A
mj	H8(1)12/9A	04-Dec	09-Dec	138					A
mj	H8(5)12/9A	04-Dec	09-Dec	148					A
mj	H8(13)12/9A	04-Dec	09-Dec	148					A
mj	I8(14)12/9A	04-Dec	09-Dec	138					A
mj	I8(16)12/9A*	04-Dec	09-Dec	156	<0.005	<0.010	<0.020	<0.020	A
mj-Additional	H8(7)1/19A	04-Dec	19-Jan	136					A
mj-Additional	H8(14)1/19A	04-Dec	19-Jan	135					A
mk	I8(6)12/9A	02-Dec	09-Dec	150					A
mk	J8(5)12/9A	02-Dec	09-Dec	152					A
mk	J8(7)12/9A	02-Dec	09-Dec	146					A
mk	J8(8)12/9A*	02-Dec	09-Dec	135	<0.005	<0.010	<0.020	<0.020	A
mk	J8(14)12/9A	02-Dec	09-Dec	143					A
ml	J8(1)12/9A*	02-Dec	09-Dec	154	<0.005	<0.010	<0.020	<0.020	A
ml	K8(7)12/9A	02-Dec	09-Dec	143					A
ml	K8(9)12/9A	02-Dec	09-Dec	163					A
ml	K8(11)12/9A	02-Dec	09-Dec	139					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
ml	K8(15)12/9A	02-Dec	09-Dec	146					A
mm	L8(3)12/9A*	19-Nov	09-Dec	145	<0.005	<0.010	<0.020	<0.020	A
mm	L8(5)12/9A	19-Nov	09-Dec	142					A
mm	L8(8)12/9A	19-Nov	09-Dec	149					A
mm	L8(13)12/9A	19-Nov	09-Dec	152					A
mm	M8(13)12/9A	30-Nov	09-Dec	156					A
mn	M8(3)12/9A*	30-Nov	09-Dec	165	<0.005	0.011	<0.020	<0.020	A
mn	M8(5)12/9A	30-Nov	09-Dec	154					A
mn	M9(6)12/9A	18-Nov	09-Dec	144					A
mn	M9(11)12/9A	18-Nov	09-Dec	134					A
mn	M9(13)12/9A	18-Nov	09-Dec	148					A
mo	L10(4)12/9A	24-Nov	09-Dec	153					A
mo	L10(9)12/9A	24-Nov	09-Dec	159					A
mo	L11(3)12/9A*	24-Nov	09-Dec	149	<0.005	0.011	<0.020	<0.020	A
mo	L12(2)12/9A	24-Nov	09-Dec	161					A
mo	L12(6)12/9A	24-Nov	09-Dec	154					A
mp	M9(8)12/9A	18-Nov	09-Dec	146	<0.005	<0.010	<0.020	<0.020	A
mp	M10(8)12/9A*	24-Nov	09-Dec	137					A
mp	M10(10)12/9A	24-Nov	09-Dec	148					A
mp	M11(1)12/9A	24-Nov	09-Dec	134					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
mp	M11(6)12/9A	24-Nov	09-Dec	134					A
mq	M11(11)12/9A*	24-Nov	09-Dec	154	<0.005	<0.010	<0.020	<0.020	A
mq	L12(4)12/9A	24-Nov	09-Dec	143					A
mq	M12(4)12/9A	16-Nov	09-Dec	132					A
mq	M12(11)12/9A	16-Nov	09-Dec	134					A
mq	M12(15)12/9A	16-Nov	09-Dec	146					A
mq-Additional	M12(3)12/14A	16-Nov	14-Dec	155					A
mr	N8(1)12/16A*	19-Nov	16-Dec	123	<0.005	<0.010	<0.020	0.027	CA
mr	N8(9)12/16A	19-Nov	16-Dec	131					A
mr	N8(11)12/9A	19-Nov	09-Dec	121			<0.020		CA
mr	N9(3)12/9A	18-Nov	09-Dec	140					A
mr	N9(10)12/9A	18-Nov	09-Dec	122			<0.020		CA
ms	N9(8)12/9A	18-Nov	09-Dec	128			<0.020		CA
ms	N10(2)12/9A	17-Nov	09-Dec	143					A
ms	N10(7)12/9A	17-Nov	09-Dec	126			<0.020		CA
ms	N10(14)12/9A*	17-Nov	09-Dec	131	<0.005	<0.010	<0.020	<0.020	A
ms	N11(5)12/9A	17-Nov	09-Dec	140					A
mt	N11(3)12/14A*	10-Dec	14-Dec	126	<0.005	<0.010	0.027	<0.020	CA
mt	N11(12)12/14A	10-Dec	14-Dec	172					A
mt	N12(3)12/14A	10-Dec	14-Dec	159					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
mt	N12(10)12/14A	10-Dec	14-Dec	140					A
mt	N12(16)12/14A	10-Dec	14-Dec	123			<0.020		CA
mu	M6(3)12/16A	07-Dec	16-Dec	151					A
mu	M6(5)12/16A*	07-Dec	16-Dec	160	<0.005	0.017	<0.020	<0.020	A
mu	M6(14)12/16A	07-Dec	16-Dec	139					A
mu	M7(4)12/16A	23-Nov	16-Dec	142					A
mu	N6(11)12/16A	07-Dec	16-Dec	152					A
mv	N6(7)12/16A*	08-Dec	16-Dec	150	<0.005	<0.010	0.024	<0.020	A
mv	N7(3)12/16A	23-Nov	16-Dec	143					A
mv	N7(9)12/16A	23-Nov	16-Dec	138					A
mv	N7(11)12/16A	23-Nov	16-Dec	131					A
mv	N7(14)12/16A	23-Nov	16-Dec	146					A
mw	N6(2)12/16A*	08-Dec	16-Dec	137	<0.005	0.018	<0.020	<0.020	A
mw	O6(4)12/16A	08-Dec	16-Dec	140					A
mw	O6(5)12/16A	08-Dec	16-Dec	164					A
mw	O6(6)12/16A	08-Dec	16-Dec	156					A
mw	P6(14)12/16A	08-Dec	16-Dec	156					A
mx	O7(2)12/16A	23-Nov	16-Dec	142					A
mx	O7(8)12/16A	23-Nov	16-Dec	138					A
mx	O7(10)12/16A*	23-Nov	16-Dec	140	<0.005	<0.010	<0.020	<0.020	A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
mx	O7(13)12/16A	23-Nov	16-Dec	153					A
mx	O8(5)12/16A	20-Nov	16-Dec	129			<0.020		CA
my	P6(2)12/16A	08-Dec	16-Dec	138					A
my	P6(10)12/16A	08-Dec	16-Dec	143					A
my	P7(1)12/16A	23-Nov	16-Dec	146					A
my	P7(8)12/16A	23-Nov	16-Dec	158					A
my	P7(15)12/16A*	23-Nov	16-Dec	154	<0.005	<0.010	<0.020	<0.020	A
my-Additional	P6(2)2/5A	23-Nov	05-Feb	140					A
my-Additional	P6(7)2/5A	23-Nov	05-Feb	166					A
my-Additional	P7(1)2/5A	23-Nov	05-Feb	145					A
my-Additional	P7(8)2/5A	23-Nov	05-Feb	133					A
mz	C21(3)12/18A	02-Nov	18-Dec	148					A
mz	C21(14)12/17A	02-Nov	17-Dec	130					A
mz	C21(16)12/17A*	02-Nov	17-Dec	152	<0.005	<0.010	<0.020	<0.020	A
mz	C22(5)12/17A	02-Nov	17-Dec	133					A
mz	C22(11)12/17A	02-Nov	17-Dec	132					A
mz-Additional	C22(4)1/12A	02-Nov	12-Jan	138					A
mz-Additional	C22(12)1/12A	02-Nov	12-Jan	125			<0.020		CA
mz-Additional	C21(8)2/2A	02-Nov	02-Feb	130					A
mz-Additional	C21(14)2/2A	02-Nov	02-Feb	165					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
mz-Additional	C21(16)2/2A	02-Nov	02-Feb	125			<0.020		CA
na	C23(2)1/12A	02-Nov	12-Jan	149					A
na	C23(5)1/12A	02-Nov	12-Jan	137					A
na	C23(12)1/12A	02-Nov	12-Jan	152					A
na	C23(14)1/12A	02-Nov	12-Jan	148					A
na	C24(1)1/12A*	02-Nov	12-Jan	146	<0.005	<0.010	<0.020	<0.020	A
nb	C24(3)1/12A	02-Nov	12-Jan	154					A
nb	C24(6)1/12A	02-Nov	12-Jan	136					A
nb	C24(15)1/12A	02-Nov	12-Jan	140					A
nb	C25(2)1/12A*	02-Nov	12-Jan	144	<0.005	<0.010	<0.020	<0.020	A
nb	C25(9)1/12A	02-Nov	12-Jan	138					A
nc	C25(7)1/12A	02-Nov	12-Jan	137					A
nc	C25(11)1/12A	02-Nov	12-Jan	145					A
nc	C25(16)1/12A	02-Nov	12-Jan	130					A
nc	C26(1)1/12A*	02-Nov	12-Jan	143	<0.005	<0.010	0.022	<0.020	A
nc	C26(6)1/12A	02-Nov	12-Jan	138					A
nd	C26(3)12/18A	02-Nov	18-Dec	133					A
nd	C26(12)12/17A	02-Nov	17-Dec	132					A
nd	C26(15)12/17A*	02-Nov	17-Dec	130	<0.005	<0.010	<0.020	<0.020	A
nd	C27(1)12/18A*	02-Nov	18-Dec	122			<0.020		CA

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
nd	C27(5)12/17A	02-Nov	17-Dec	148					A
ne	C27(3)1/5A	02-Nov	05-Jan	141					A
ne	C27(12)1/5A	02-Nov	05-Jan	153					A
ne	C27(15)1/5A	02-Nov	05-Jan	142					A
ne	C28(1)1/5A	02-Nov	05-Jan	149					A
ne	C28(5)1/5A*	02-Nov	05-Jan	149	<0.005	<0.010	0.021	<0.020	A
nf	C28(3)1/5A	02-Nov	05-Jan	151					A
nf	C28(6)1/5A	02-Nov	05-Jan	142					A
nf	C28(12)1/5A*	02-Nov	05-Jan	152	<0.005	<0.010	<0.020	<0.020	A
nf	C28(14)1/5A	02-Nov	05-Jan	138					A
nf	C28(16)1/5A	02-Nov	05-Jan	116			<0.020		CA
ng	C29(3)12/18A	02-Nov	18-Dec	149					A
ng	C29(5)12/17A	02-Nov	17-Dec	141					A
ng	C29(8)12/17A*	02-Nov	17-Dec	134	<0.005	<0.010	<0.020	<0.020	A
ng	C29(10)12/17A*	02-Nov	17-Dec	120			<0.020		CA
ng	C29(15)12/17A	02-Nov	17-Dec	130					A
ng-Additional	C29(6)1/5A	02-Nov	05-Jan	127			<0.020		CA
ng-Additional	C29(13)1/5A	02-Nov	05-Jan	126			<0.020		CA
nh	C30(1)12/18A	02-Nov	18-Dec	152					A
nh	C30(6)12/17A	02-Nov	17-Dec	130					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
nh	C30(8)12/17A	02-Nov	17-Dec	148					A
nh	C30(11)12/17A*	02-Nov	17-Dec	133	<0.005	<0.010	<0.020	<0.020	A
nh	C30(14)12/17A	02-Nov	17-Dec	142					A
ni	D10(8)1/5A	16-Nov	05-Jan	150					A
ni	D10(11)1/5A	16-Nov	05-Jan	148					A
ni	D11(6)1/5A	16-Nov	05-Jan	142					A
ni	D11(12)1/5A*	16-Nov	05-Jan	150	<0.005	<0.010	<0.020	<0.020	A
ni	D11(13)1/5A	16-Nov	05-Jan	145					A
nj	D12(2)1/5A	16-Nov	05-Jan	153					A
nj	D12(8)1/5A	16-Nov	05-Jan	140					A
nj	D12(9)1/5A	16-Nov	05-Jan	139					A
nj	D12(14)1/5A	16-Nov	05-Jan	159					A
nj	D13(9)1/5A*	16-Nov	05-Jan	159	<0.005	0.013	<0.020	<0.020	A
nk	D13(4)1/5A	16-Nov	05-Jan	153					A
nk	D13(6)1/5A	16-Nov	05-Jan	152					A
nk	D13(14)1/5A*	16-Nov	05-Jan	170	<0.005	0.013	<0.020	<0.020	A
nk	D14(6)1/5A	16-Nov	05-Jan	125			<0.020		CA
nk	D14(9)1/5A	16-Nov	05-Jan	118			<0.020		CA
nl	D14(4)12/18A	16-Nov	18-Dec	144					A
nl	D14(16)12/18A	16-Nov	18-Dec	146					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
nl	D15(4)12/18A	16-Nov	18-Dec	134					A
nl	D15(5)12/18A*	16-Nov	18-Dec	133	<0.005	<0.010	<0.020	0.073	A
nl	D15(14)12/18A	16-Nov	18-Dec	131					A
nm	D16(3)12/18A	16-Nov	18-Dec	143					A
nm	D16(5)12/18A	16-Nov	18-Dec	130					A
nm	D16(8)12/18A	16-Nov	18-Dec	139					A
nm	D16(14)12/18A*	16-Nov	18-Dec	130	<0.005	<0.010	<0.020	0.041	A
nm	D17(13)12/18A	16-Nov	18-Dec	141					A
nn	D17(3)12/18A	16-Nov	18-Dec	132					A
nn	D17(10)12/18A	16-Nov	18-Dec	144					A
nn	D18(3)12/18A	16-Nov	18-Dec	137					A
nn	D18(5)12/18A*	16-Nov	18-Dec	146	<0.005	<0.010	<0.020	<0.020	A
nn	D18(13)12/18A	16-Nov	18-Dec	141					A
no	D18(8)2/10A	16-Nov	10-Feb	149					A
no	D18(15)2/10A	16-Nov	10-Feb	145					A
no	D19(3)2/10A*	16-Nov	10-Feb	124	<0.005	<0.010	<0.020	<0.020	CA
no	D19(5)2/10A	16-Nov	10-Feb	131					A
no	D19(14)2/10A	16-Nov	10-Feb	140					A
np	G6(10)12/21A	25-Nov	21-Dec	146					A
np	G6(12)12/21A	25-Nov	21-Dec	149					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
np	G6(14)12/21A	25-Nov	21-Dec	136					A
np	G7(13)12/21A*	30-Nov	21-Dec	146	<0.005	<0.010	<0.020	<0.020	A
np	G7(16)1/6A	30-Nov	06-Jan	120			<0.020		CA
nq	G6(5)12/21A*	25-Nov	21-Dec	160	<0.005	0.010	<0.020	<0.020	A
nq	G6(7)12/21A	25-Nov	21-Dec	149					A
nq	H6(10)12/21A	25-Nov	21-Dec	154					A
nq	H6(12)12/21A	25-Nov	21-Dec	160					A
nq	H6(16)12/21A	25-Nov	21-Dec	157					A
nr	H6(1)12/21A	25-Nov	21-Dec	159					A
nr	H6(6)12/21A	25-Nov	21-Dec	155					A
nr	H6(7)12/21A	25-Nov	21-Dec	160					A
nr	H6(9)12/21A	25-Nov	21-Dec	144					A
nr	I6(14)12/21A*	24-Nov	21-Dec	147	0.010	0.010	<0.020	<0.020	A
ns	I6(1)12/21A*	24-Nov	21-Dec	147	0.015	<0.010	<0.020	<0.020	A
ns	I6(8)12/21A	24-Nov	21-Dec	146					A
ns	J6(7)12/21A	24-Nov	21-Dec	144					A
ns	J6(11)12/21A	24-Nov	21-Dec	143					A
ns	J6(15)12/21A	24-Nov	21-Dec	140					A
nt	J6(2)12/21A	24-Nov	21-Dec	147					A
nt	J6(3)12/21A	24-Nov	21-Dec	140					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
nt	K6(7)12/21a	07-Dec	22-Dec	161					A
nt	K6(9)12/21A*	07-Dec	21-Dec	130	0.005	<0.010	<0.020	<0.020	A
nt	K6(11)12/21A	07-Dec	21-Dec	140					A
nu	L6(2)12/21A	09-Dec	21-Dec	134					A
nu	L6(7)12/21A*	09-Dec	21-Dec	119	<0.005	<0.010	<0.020	<0.020	CA
nu	L6(11)12/22A	09-Dec	22-Dec	161					A
nu	L6(13)12/22A	09-Dec	22-Dec	146					A
nu	L7(13)12/22A	23-Nov	22-Dec	144					A
nv	L7(2)12/21A	23-Nov	21-Dec	133					A
nv	L7(12)12/22A	09-Jan	22-Dec	157					A
nv	L7(15)12/22A	23-Nov	22-Dec	139					A
nv	M7(11)12/21A*	23-Nov	21-Dec	148	0.023	<0.010	<0.020	<0.020	A
nv	M7(13)12/21A	23-Nov	21-Dec	137					A
nw	C31(1)12/22A	09-Dec	22-Dec	171					A
nw	C31(10)12/22A*	09-Dec	22-Dec	131	<0.005	<0.010	<0.020	<0.020	A
nw	C31(16)12/22A	09-Dec	22-Dec	135					A
nw	D31(8)12/22A	09-Dec	22-Dec	161					A
nw	D31(15)12/22A	09-Dec	22-Dec	116			<0.020		CA
nx	D30(8)12/22A	02-Nov	22-Dec	147					A
nx	D30(11)12/22A	02-Nov	22-Dec	155					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
nx	D30(13)12/22A	02-Nov	22-Dec	141					A
nx	D30(15)12/22A*	02-Nov	22-Dec	145	<0.005	<0.010	<0.020	0.088	A
nx	D30(16)12/22A	02-Nov	22-Dec	144					A
ny	D30(2)12/22A*	02-Nov	22-Dec	158	<0.005	<0.010	<0.020	0.031	A
ny	E30(8)12/22A	31-Oct	22-Dec	150					A
ny	E30(10)12/22A	31-Oct	22-Dec	148					A
ny	E30(13)12/22A	31-Oct	22-Dec	135					A
ny	E30(16)12/22A	31-Oct	22-Dec	147					A
nz	E30(2)12/22A	31-Oct	22-Dec	146					A
nz	E30(6)12/22A	31-Oct	22-Dec	147					A
nz	E30(7)12/22A*	31-Oct	22-Dec	146	<0.005	<0.010	<0.020	0.029	A
nz	F30(12)12/22A	03-Nov	22-Dec	136					A
nz	F30(14)12/22A	03-Nov	22-Dec	141					A
oa	D31(2)12/22A	09-Dec	22-Dec	143					A
oa	E31(2)12/22A*	09-Dec	22-Dec	143	<0.005	<0.010	<0.020	0.055	A
oa	E31(8)12/22A	09-Dec	22-Dec	143					A
oa	E31(9)12/22A	09-Dec	22-Dec	157					A
oa	E31(16)12/22A	09-Dec	22-Dec	140					A
oa-Additional	E31(3)1/28A	09-Dec	28-Jan	162					A
oa-Additional	E31(8)1/28A	09-Dec	28-Jan	150					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
oa-Additional	E31(15)1/28A	09-Dec	28-Jan	159					A
ob	F30(2)12/22A	03-Nov	22-Dec	135					A
ob	F30(3)12/22A*	03-Nov	22-Dec	128	<0.005	<0.010	<0.020	0.105	CA
ob	F30(4)12/22A	03-Nov	22-Dec	147					A
ob	F30(7)12/22A	03-Nov	22-Dec	144					A
ob	F30(10)12/22A	03-Nov	22-Dec	140					A
oc	F31(4)12/22A	05-Nov	22-Dec	134					A
oc	F31(6)12/22A	05-Nov	22-Dec	143					A
oc	F31(11)12/22A	05-Nov	22-Dec	137					A
oc	F31(13)12/22A*	05-Nov	22-Dec	137	<0.005	<0.010	<0.020	0.093	A
oc	F31(16)12/22A	05-Nov	22-Dec	118			<0.020		CA
oc-Additional	F31(4)1/28A	05-Nov	28-Jan	135					A
oc-Additional	F31(7)1/28A	05-Nov	28-Jan	138					A
oc-Additional	F31(16)1/28A	05-Nov	28-Jan	152					A
od	F31(2)12/22A*	05-Nov	22-Dec	132	<0.005	<0.010	<0.020	0.137	A
od	G31(7)12/22A	03-Nov	22-Dec	134					A
od	G31(10)12/22A	03-Nov	22-Dec	120			<0.020		CA
od	G31(12)12/22A	03-Nov	22-Dec	123			<0.020		CA
od	G31(13)12/22A	03-Nov	22-Dec	128			<0.020		CA
oe	G31(2)12/22A	03-Nov	22-Dec	126			<0.020		CA

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
oe	G31(4)12/22A	03-Nov	22-Dec	124			<0.020		CA
oe	H31(10)12/22A	03-Nov	22-Dec	127			<0.020		CA
oe	H31(12)12/22A	03-Nov	22-Dec	139					A
oe	H31(14)12/22A*	03-Nov	22-Dec	118	<0.005	<0.010	0.051	0.931	CA
of	H31(2)12/22A	03-Nov	22-Dec	121			<0.020		CA
of	H31(4)12/22A	03-Nov	22-Dec	120			<0.020		CA
of	H31(9)12/22A	03-Nov	22-Dec	120			<0.020		CA
of	I31(13)12/23A	03-Nov	23-Dec	144					A
of	I31(16)12/23A	03-Nov	23-Dec	141					A
og	I31(2)12/23A*	03-Nov	23-Dec	146	<0.005	<0.010	<0.020	0.241	A
og	I31(5)12/23A	03-Nov	23-Dec	132					A
og	I31(8)12/23A	03-Nov	23-Dec	137					A
og	I31(9)12/23A	03-Nov	23-Dec	135					A
og	I31(11)12/23A	03-Nov	23-Dec	142					A
oh	J32(2)1/13A	03-Nov	13-Jan	183					A
oh	J32(7)1/13A	03-Nov	13-Jan	171					A
oh	J32(9)1/13A	03-Nov	13-Jan	157					A
oh	J32(14)1/13A	03-Nov	13-Jan	169					A
oh	K32(16)1/13A*	31-Oct	13-Jan	121	<0.005	0.011	<0.020	1.146	CA
oh-Additional	J32(4)1/28A	03-Nov	28-Jan	165					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
oh-Additional	J32(6)1/28A	03-Nov	28-Jan	139					A
oi	K32(2)1/13A	31-Oct	13-Jan	172					A
oi	K32(7)1/13A	31-Oct	13-Jan	174					A
oi	K32(10)1/13A	31-Oct	13-Jan	172					A
oi	K32(12)1/13A	31-Oct	13-Jan	164					A
oi	K32(13)1/13A*	31-Oct	13-Jan	166	<0.005	<0.010	<0.020	0.020	A
oi-Additional	K32(4)1/28A	31-Oct	28-Jan	155					A
oi-Additional	K32(7)1/28A	31-Oct	28-Jan	150					A
oj	L32(2)1/13A	31-Oct	13-Jan	150					A
oj	L32(4)1/13A	31-Oct	13-Jan	140					A
oj	L32(6)1/13A	31-Oct	13-Jan	171					A
oj	L32(11)1/13A	31-Oct	13-Jan	174					A
oj	L32(14)1/13A*	31-Oct	13-Jan	150	<0.005	0.012	<0.020	<0.020	A
ok	M32(5)1/13A	31-Oct	13-Jan	155					A
ok	M32(7)1/13A*	31-Oct	13-Jan	164	<0.005	0.012	<0.020	<0.020	A
ok	M32(10)1/13A	31-Oct	13-Jan	164					A
ok	M32(13)1/13A	31-Oct	13-Jan	148					A
ok	M32(15)1/13A	31-Oct	13-Jan	174					A
ol	M32(2)1/13A	31-Oct	13-Jan	167					A
ol	N32(9)1/13A	30-Oct	13-Jan	168					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
ol	N32(11)1/13A*	30-Oct	13-Jan	157	<0.005	<0.010	<0.020	<0.020	A
ol	N32(13)1/13A	30-Oct	13-Jan	160					A
ol	N32(16)1/13A	30-Oct	13-Jan	142					A
om	N32(1)1/13A	30-Oct	13-Jan	144					A
om	N32(3)1/13A	30-Oct	13-Jan	160					A
om	N32(5)1/13A*	30-Oct	13-Jan	158	<0.005	<0.010	0.027	<0.020	A
om	N32(6)1/13A	30-Oct	13-Jan	160					A
om	O32(14)1/13A	30-Oct	13-Jan	157					A
on	B27(8)1/19A	14-Dec	19-Jan	135					A
on	B27(11)1/19A	14-Dec	19-Jan	130					A
on	B28(2)1/19A*	14-Dec	19-Jan	173	<0.005	<0.010	0.031	0.030	A
on	B28(6)1/19A	14-Dec	19-Jan	142					A
on	B29(4)1/19A	14-Dec	19-Jan	134					A
oo	B29(7)1/19A	14-Dec	19-Jan	166					A
oo	B30(1)1/19A	14-Dec	19-Jan	126			<0.020		CA
oo	B30(6)1/19A*	14-Dec	19-Jan	151	<0.005	0.011	<0.020	<0.020	A
oo	B30(9)1/19A	14-Dec	19-Jan	130					A
oo	B31(1)1/20A	14-Dec	20-Jan	145					A
op	C32(2)1/20A	16-Dec	20-Jan	144					A
op	C32(9)1/20A	16-Dec	20-Jan	153					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
op	D32(6)1/21A	16-Dec	21-Jan	144					A
op	D32(9)1/20A*	16-Dec	20-Jan	144	<0.005	<0.010	<0.020	<0.020	A
op	D32(6)1/28A	16-Dec	28-Jan	142					A
op	E32(2)1/28A	16-Dec	28-Jan	158					A
op	E32(9)1/28A	16-Dec	28-Jan	168					A
op	E32(13)1/28A*	16-Dec	28-Jan	155	<0.005	0.010	<0.020	0.027	A
op	E32(15)1/28A	16-Dec	28-Jan	121			<0.020		CA
oq	O32(1)1/5A*	30-Oct	05-Jan	176	<0.005	<0.010	<0.020	<0.020	A
oq	O32(4)1/5A	30-Oct	05-Jan	163					A
oq	O32(7)1/5A	30-Oct	05-Jan	145					A
oq	O32(10)1/5A	30-Oct	05-Jan	163					A
oq	P32(15)1/5A	30-Oct	05-Jan	150					A
or	P32(2)1/5A	30-Oct	05-Jan	158					A
or	P32(4)1/5A	30-Oct	05-Jan	153					A
or	P32(9)1/5A	30-Oct	05-Jan	181					A
or	P32(11)1/5A	30-Oct	05-Jan	170					A
or	P32(13)1/5A*	30-Oct	05-Jan	184	<0.005	<0.010	<0.020	<0.020	A
os	G7(2)1/6A*	30-Nov	06-Jan	173	<0.005	0.014	<0.020	<0.020	A
os	G7(6)1/6A	30-Nov	06-Jan	167					A
os	H7(9)1/6A	25-Nov	06-Jan	183					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
os	H7(12)1/6A	25-Nov	06-Jan	136					A
os	H7(15)1/6A	25-Nov	06-Jan	182					A
ot	H7(2)1/6A	25-Nov	06-Jan	176					A
ot	H7(6)1/6A	25-Nov	06-Jan	178					A
ot	H7(7)1/6A	25-Nov	06-Jan	168					A
ot	I7(7)1/6A	25-Nov	06-Jan	152					A
ot	I7(10)1/6A*	25-Nov	06-Jan	166	<0.005	<0.010	<0.020	<0.020	A
ou	I7(3)1/6A	25-Nov	06-Jan	154					A
ou	J7(8)1/6A	24-Nov	06-Jan	142					A
ou	J7(10)1/6A*	24-Nov	06-Jan	146	<0.005	<0.010	<0.020	<0.020	A
ou	J7(12)1/6A	24-Nov	06-Jan	152					A
ou	J7(14)1/6A	24-Nov	06-Jan	162					A
ov	J7(4)1/6A	24-Nov	06-Jan	141					A
ov	K7(4)1/6A*	23-Nov	06-Jan	132	<0.005	<0.010	<0.020	<0.020	A
ov	K7(8)1/6A	23-Nov	06-Jan	141					A
ov	K7(10)1/6A	23-Nov	06-Jan	134					A
ov	K7(12)1/6A	23-Nov	06-Jan	138					A
ow	B10(7)1/19A	17-Dec	19-Jan	188					A
ow	B10(12)1/19A	17-Dec	19-Jan	159					A
ow	B11(2)1/19A	17-Dec	19-Jan	184					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
ow	B11(11)1/19A*	17-Dec	19-Jan	143	<0.005	0.011	<0.020	<0.020	A
ow	B12(4)1/19A	17-Dec	19-Jan	130					A
ow	B12(10)1/19A	17-Dec	19-Jan	132					A
ow-Additional	B12(8)1/28A	17-Dec	28-Jan	130					A
ow-Additional	B12(11)1/28A	17-Dec	28-Jan	135					A
ow	B13(5)2/2A	17-Dec	02-Feb	145					A
ow	B13(8)2/2A	17-Dec	02-Feb	122			<0.020		CA
ow	B13(10)2/2A*	17-Dec	02-Feb	139	<0.005	<0.010	<0.020	<0.020	A
ox	C10(11)1/19A*	16-Dec	19-Jan	202			0.175		CA
ox	C11(3)1/19A	16-Dec	19-Jan	181					A
ox	C11(10)1/19A	16-Dec	19-Jan	184					A
ox	C11(12)1/19A	16-Dec	19-Jan	175					A
ox	C12(5)1/19A*	16-Dec	19-Jan	116	<0.005	<0.010	0.025	0.300	CA
oy	C12(3)1/19A	16-Dec	19-Jan	142					A
oy	C12(10)1/19A	16-Dec	19-Jan	150					A
oy	C12(12)1/19A	16-Dec	19-Jan	136					A
oy	C13(2)1/19A*	16-Dec	19-Jan	158	<0.005	0.010	<0.020	<0.020	A
oy	C13(10)1/19A	16-Dec	19-Jan	138					A
oy-Additional	C13(10)2/2A	16-Dec	02-Feb	128			<0.020		CA
oy-Additional	C13(13)2/2A	16-Dec	02-Feb	137					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
oz	C13(15)1/19A	16-Dec	19-Jan	132					A
oz	C14(3)1/19A	16-Dec	19-Jan	157					A
oz	C14(6)1/19A	16-Dec	19-Jan	152					A
oz	C14(9)1/19A	16-Dec	19-Jan	134					A
oz	C14(11)1/19A*	16-Dec	19-Jan	148	<0.005	<0.010	0.022	0.036	A
oz-Additional	C13(15)2/2A	16-Dec	02-Feb	123			<0.020		CA
pa	C15(7)1/11A	16-Dec	11-Jan	128			<0.020		CA
pa	C15(9)1/11A	16-Dec	11-Jan	130					A
pa	C15(12)1/11A	16-Dec	11-Jan	120			<0.020		CA
pa	C16(2)1/11A*	16-Dec	11-Jan	123	<0.005	<0.010	<0.020	0.114	CA
pa	C16(5)1/12A	16-Dec	12-Jan	130					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
pa-Additional	C15(4)2/10A	16-Dec	10-Feb	164					A
pa-Additional	C15(12)2/10A	16-Dec	10-Feb	156					A
pa-Additional	C16(5)2/10A	16-Dec	10-Feb	162					A
pa-Additional	C16(13)2/10A*	16-Dec	10-Feb	151	<0.005	0.013	<0.020	0.053	A
p ^b	C16(4)1/11A	16-Dec	11-Jan	135					A
p ^b	C16(8)1/11A	16-Dec	11-Jan	140					A
p ^b	C16(11)1/11A	16-Dec	11-Jan	137					A
p ^b	C17(3)1/11A	16-Dec	11-Jan	149					A
p ^b	C17(9)1/11A*	16-Dec	11-Jan	151	<0.005	<0.010	<0.020	<0.020	A
pb-Additional	C16(8)2/10A	16-Dec	10-Feb	152					A
pb-Additional	C16(10)2/10A*	16-Dec	10-Feb	156	<0.005	0.013	<0.020	0.048	A
pb-Additional	C16(15)2/10A	16-Dec	10-Feb	147					A
p ^c	C17(11)1/11A	16-Dec	11-Jan	117			<0.020		CA
p ^c	C18(2)1/11A	16-Dec	11-Jan	147					A
p ^c	C18(6)1/11A	16-Dec	11-Jan	123			<0.020		CA
p ^c	C18(7)1/11A*	16-Dec	11-Jan	145	<0.005	<0.010	<0.020	<0.020	A
p ^c	C18(16)1/11A	16-Dec	11-Jan	137					A
pc-Additional	C19(9)2/10A	16-Dec	10-Feb	126			<0.020		CA

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
pd	C19(2)2/10A	16-Dec	10-Feb	138					A
pd	C19(10)2/10A*	16-Dec	10-Feb	165	<0.005	0.012	<0.020	0.035	A
pe	J5(12)1/11A*	11-Dec	11-Jan	161	<0.005	<0.010	<0.020	<0.020	A
pe	J5(13)1/11A	11-Dec	11-Jan	159					A
pf	M4(3)1/11A	23-Dec	11-Jan	153					A
pf	M4(6)1/11A	23-Dec	11-Jan	128			<0.020		CA
pf	N4(4)1/11A	23-Dec	11-Jan	153					A
pf	N4(15)1/11A*	23-Dec	11-Jan	143	<0.005	<0.010	<0.020	<0.020	A
pf	O4(8)1/11A	23-Dec	11-Jan	158					A
pg	O4(3)1/11A*	23-Dec	11-Jan	123	<0.005	<0.010	<0.020	<0.020	CA
pg	P4(11)1/11A	23-Dec	11-Jan	139					A
pg	P4(12)1/11A	23-Dec	11-Jan	145					A
pg	P4(8)1/21A	23-Dec	21-Jan	177					A
pg	Q4(12)2/3A	23-Dec	03-Feb	180					A
pg	Q4(15)2/3A	23-Dec	03-Feb	176					A
ph	Q4(4)1/21A*	23-Dec	21-Jan	180	<0.005	0.012	0.044	0.075	A
ph	R4(16)2/3A*	23-Dec	03-Feb	146	<0.005	0.054	<0.020	<0.020	A
pi	L5(7)1/11A	09-Dec	11-Jan	158					A
pi	L5(14)1/11A	09-Dec	11-Jan	147					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
pi	M5(6)1/11A	08-Dec	11-Jan	149					A
pi	M5(16)1/11A	08-Dec	11-Jan	154					A
pi	N5(15)1/11A*	08-Dec	11-Jan	145	<0.005	<0.010	<0.020	<0.020	A
pj	N5(2)1/11A	08-Dec	11-Jan	148					A
pj	O5(2)1/11A*	08-Dec	11-Jan	150	<0.005	<0.010	<0.020	0.270	A
pj	O5(11)1/11A	08-Dec	11-Jan	125			<0.020		CA
pj	P5(11)1/11A	08-Dec	11-Jan	160					A
pj	Q5(16)1/11A	08-Dec	11-Jan	143					A
pj-Additional	Q5(14)1/21A	08-Dec	21-Jan	194			0.074		CA
pj-Additional	Q5(7)1/22A	08-Dec	22-Jan	144					A
pj-Additional	Q5(7)2/5A	08-Dec	05-Feb	147					A
pj-Additional	Q5(16)2/5A	08-Dec	05-Feb	146					A
pk	G5(1)1/12A	23-Nov	12-Jan	158					A
pk	G5(6)1/12A*	23-Nov	12-Jan	170	<0.005	<0.010	<0.020	<0.020	A
pk	G5(11)1/12A	23-Nov	12-Jan	171					A
pk	G5(13)1/12A	23-Nov	12-Jan	153					A
pk	G5(14)1/12A	23-Nov	12-Jan	179					A
pl	H5(3)1/12A	23-Nov	12-Jan	132					A
pl	H5(6)1/12A	23-Nov	12-Jan	126			0.038		CA

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
pl	H5(11)1/12A*	23-Nov	12-Jan	154	<0.005	<0.010	<0.020	<0.020	A
pl	H5(13)1/12A	23-Nov	12-Jan	138					A
pl	H5(14)1/12A	23-Nov	12-Jan	157					A
pl-Additional	H5(10)2/2A	23-Nov	02-Feb	164					A
pl-Additional	H5(13)2/2A	23-Nov	02-Feb	142					A
pl-Additional	H5(2)2/3A	23-Nov	03-Feb	124			<0.020		CA
pm	G4(6)1/12A*	23-Nov	12-Jan	125	<0.005	<0.010	<0.020	0.134	CA
pm	G4(8)1/12A	23-Nov	12-Jan	148					A
pm	G4(12)1/12A	23-Nov	12-Jan	168					A
pm-Additional	G4(5)1/21A	23-Nov	21-Jan	125			<0.020		CA
pm-Additional	G4(11)1/21A	23-Nov	21-Jan	132					A
pm-Additional	G4(1)2/2A	23-Nov	02-Feb	130					A
pm-Additional	G4(7)2/2A	23-Nov	02-Feb	132					A
pm	H4(3)2/2A	23-Nov	02-Feb	133					A
pm	H4(9)2/2A*	23-Nov	02-Feb	116	<0.005	<0.010	<0.020	<0.020	CA
pm	H4(15)2/2A	23-Nov	02-Feb	125			<0.020		CA
pm	I4(9)2/2A	23-Nov	02-Feb	118			<0.020		CA
pm	I4(16)2/2A	23-Nov	02-Feb	136					A
pn	F9(1)2/18A	04-Dec	18-Feb	120			<0.020		CA

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
pn	G8(3)2/18A	04-Dec	18-Feb	137					A
pn	G8(12)2/18A	04-Dec	18-Feb	131					A
pn	G9(1)2/18A*	04-Dec	18-Feb	139	<0.005	<0.010	<0.020	<0.020	A
pn	G9(9)2/18A	04-Dec	18-Feb	165					A
pn	H9(9)2/18A	04-Dec	18-Feb	134					A
po	J5(2)1/13A*	11-Dec	13-Jan	147	<0.005	<0.010	<0.020	<0.020	A
po	K5(1)1/13A	07-Dec	13-Jan	134					A
po	K5(7)1/13A	07-Dec	13-Jan	158					A
po	K5(9)1/13A	07-Dec	13-Jan	152					A
po	K5(15)1/13A	07-Dec	13-Jan	138					A
pp	O33(4)1/14A	16-Dec	14-Jan	141					A
pp	O33(10)1/14A	16-Dec	14-Jan	143					A
pp	O34(5)1/14A	16-Dec	14-Jan	150					A
pp	O34(14)1/14A*	16-Dec	14-Jan	141	<0.005	<0.010	<0.020	<0.020	A
pp	P33(9)1/14A	17-Dec	14-Jan	135					A
pp	P33(11)1/14A	17-Dec	14-Jan	149					A
pp	P34(10)1/14A	17-Dec	14-Jan	149					A
pq	Q32(2)2/4A	23-Nov	02-Feb	134					A
pq	Q32(7)2/4A	23-Nov	02-Feb	136					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
pq	Q32(9)2/4A	23-Nov	02-Feb	170					A
pq	Q32(11)2/4A	23-Nov	02-Feb	150					A
pq	Q32(14)2/4A*	23-Nov	02-Feb	141	<0.005	<0.010	<0.020	<0.020	A
pq	Q33(5)2/4A	17-Dec	02-Feb	151					A
pq	Q33(14)2/4A	17-Dec	02-Feb	153					A
pr	D4(1)1/14A	23-Dec	14-Jan	164					A
pr	D4(2)1/14A	23-Dec	14-Jan	190					A
pr	E4(5)1/14A	23-Dec	14-Jan	166					A
pr	E4(13)1/14A*	23-Dec	14-Jan	155	<0.005	<0.010	<0.020	<0.020	A
pr	E4(14)1/14A	23-Dec	14-Jan	132					A
pr-Additional	D4(6)2/9A	23-Dec	09-Feb	173					A
ps	E4(1)1/14A	23-Dec	14-Jan	144					A
ps	F4(3)1/14A	23-Dec	14-Jan	154					A
ps	F4(5)1/14A	23-Dec	14-Jan	130					A
ps	F4(11)1/14A*	23-Dec	14-Jan	127	<0.005	<0.010	<0.020	0.049	CA
ps	F4(13)1/14A	23-Dec	14-Jan	156					A
pt	E5(1)1/18A	08-Jan	18-Jan	129			<0.020		CA
pt	E5(3)1/18A*	08-Jan	18-Jan	203	<0.005	0.010	<0.020	<0.020	CA
pt	E5(4)1/18A	08-Jan	18-Jan	187					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
Pt	E5(5)1/14A	08-Jan	18-Jan	177					A
Pt	E5(9)1/14A	08-Jan	14-Jan	132					A
Pu	F5(1)1/14A*	30-Nov	14-Jan	157	<0.005	<0.010	<0.020	<0.020	A
Pu	F5(3)1/14A	30-Nov	14-Jan	151					A
Pu	F5(7)1/14A	30-Nov	14-Jan	133					A
Pu	F5(8)1/14A	30-Nov	14-Jan	151					A
Pu	F5(11)1/14A	30-Nov	14-Jan	152					A
Pv	D5(13)1/18A	08-Jan	18-Jan	206			0.055		CA
Pv	D5(14)1/18A*	08-Jan	18-Jan	209	<0.005	<0.010	0.087	0.032	CA
Pv	D4(9)2/9A	23-Dec	09-Feb	158					A
Pv	D4(11)2/9A*	23-Dec	09-Feb	162	<0.005	<0.010	<0.020	<0.020	A
Pv	D4(14)2/9A	23-Dec	09-Feb	162					A
Pw	D5(2)1/18A	08-Jan	18-Jan	190					A
Pw	D5(5)1/18A	08-Jan	18-Jan	183					A
Pw	D5(6)1/18A*	08-Jan	18-Jan	190	<0.005	<0.010	<0.020	<0.020	A
Pw	D5(10)1/18A	08-Jan	18-Jan	202			<0.020		CA
Pw	E5(15)1/18A	08-Jan	18-Jan	181					A
Px	D6(10)2/9A	11-Jan	09-Feb	156					A
Px	D6(13)2/9A	11-Jan	09-Feb	168					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
px	D6(16)2/9A*	11-Jan	09-Feb	160	<0.005	0.011	<0.020	<0.010	A
px	D7(14)2/9A	14-Jan	09-Feb	187					A
px	D7(15)2/9A	14-Jan	09-Feb	173					A
py	D6(3)2/9A*	11-Jan	09-Feb	170	<0.005	0.010	<0.020	<0.010	A
py	D6(4)2/9A	11-Jan	09-Feb	177					A
py	D6(7)2/9A	11-Jan	09-Feb	146					A
py	E6(12)2/9A	08-Jan	09-Feb	135					A
py	E6(15)2/9A	08-Jan	09-Feb	150					A
pz	D7(1)2/9A	14-Jan	09-Feb	157					A
pz	D7(8)2/9A	14-Jan	09-Feb	158					A
pz	D7(11)2/9A	14-Jan	09-Feb	175					A
pz	E7(13)2/9A*	08-Jan	09-Feb	186	<0.005	<0.010	<0.020	<0.020	A
pz	E7(16)2/9A	08-Jan	09-Feb	165					A
qa	D8(2)2/9A	14-Jan	09-Feb	163					A
qa	D8(7)2/9A	14-Jan	09-Feb	177					A
qa	D8(10)2/9A*	14-Jan	09-Feb	178	<0.005	0.014	0.073	0.054	A
qa	E8(9)2/9A	08-Jan	09-Feb	167					A
qa	E8(14)2/9A	08-Jan	09-Feb	152					A
qb	E6(2)1/18A	08-Jan	18-Jan	188					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
qb	E6(6)1/18A	08-Jan	18-Jan	171					A
qb	E6(8)1/18A	08-Jan	18-Jan	147					A
qb	E6(9)1/18A*	08-Jan	18-Jan	169	<0.005	<0.010	<0.020	<0.020	A
qb	E6(11)1/18A	08-Jan	18-Jan	162					A
qc	F6(2)1/18A	30-Nov	18-Jan	156					A
qc	F6(3)1/18A	30-Nov	18-Jan	162					A
qc	F6(9)1/18A*	30-Nov	18-Jan	169	<0.005	<0.010	<0.020	<0.020	A
qc	F6(11)1/18A	30-Nov	18-Jan	171					A
qc	F6(12)1/18A	30-Nov	18-Jan	152					A
qd	E7(4)1/19A*	08-Jan	19-Jan	155	<0.005	<0.010	<0.020	<0.020	A
qd	E7(7)1/19A	08-Jan	19-Jan	162					A
qd	E7(8)1/19A	08-Jan	19-Jan	146					A
qd	E7(10)1/19A	08-Jan	19-Jan	164					A
qd	F7(15)1/19A	08-Jan	19-Jan	137					A
qd-Additional	E7(4)2/2A	08-Jan	02-Feb	146					A
qd-Additional	E7(7)2/2A	08-Jan	02-Feb	143					A
qd-Additional	E7(3)2/9A	08-Jan	09-Feb	163					A
qd-Additional	E7(5)2/9A	08-Jan	09-Feb	175					A
qd-Additional	E7(11)2/9A	08-Jan	09-Feb	176					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
qe	F8(3)2/2A	04-Dec	02-Feb	130					A
qe	F8(11)2/2A	04-Dec	02-Feb	120			0.082		CA
qe	F8(13)2/2A	04-Dec	02-Feb	150					A
qe	E8(2)2/2A	04-Dec	02-Feb	164					A
qe	E8(5)2/2A	04-Dec	02-Feb	149					A
qe	E8(7)2/2A*	04-Dec	02-Feb	161	<0.005	<0.010	<0.020	<0.020	A
qe	E8(5)2/9A	04-Dec	09-Feb	176					A
qf	F7(1)1/19A	08-Jan	19-Jan	148					A
qf	F7(2)1/19A	08-Jan	19-Jan	159					A
qf	F7(7)1/19A*	08-Jan	19-Jan	162	<0.005	<0.010	<0.020	<0.020	A
qf	F7(8)1/19A	08-Jan	19-Jan	139					A
qf	F7(10)1/19A	08-Jan	19-Jan	150					A
qg	B14(6)1/19A	17-Dec	19-Jan	130					A
qg	B14(11)B1/19A	17-Dec	19-Jan	126			<0.020		CA
qg	B15(5)1/19A*	17-Dec	19-Jan	150	<0.005	<0.010	<0.020	0.022	A
qg-Additional	B14(2)1/28A	17-Dec	28-Jan	130					A
qg-Additional	B14(5)1/28A	17-Dec	28-Jan	134					A
qg-Additional	B15(7)1/28A	17-Dec	28-Jan	132		*			A
qg-Additional	B15(8)1/28A	17-Dec	28-Jan	130					A

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
qg-Additional	B15(4)2/10A	17-Dec	10-Feb	159					A
qg	B16(2)2/10A	17-Dec	10-Feb	168					A
qg	B16(5)2/10A	17-Dec	10-Feb	168					A
qg	B16(7)2/10A*	17-Dec	10-Feb	149	<0.050	0.010	<0.020	0.032	A
qg	B17(1)2/10A	17-Dec	10-Feb	158					A
qh	B17(6)1/19A	17-Dec	19-Jan	147					A
qh	B17(8)1/19A	17-Dec	19-Jan	160					A
qh	B18(4)1/19A*	17-Dec	19-Jan	150	<0.005	<0.010	<0.020	<0.020	A
qh	B18(10)1/19A	17-Dec	19-Jan	155					A
qh	B19(9)1/19A	17-Dec	19-Jan	149					A
qh-Additional	B17(5)1/28A	17-Dec	28-Jan	138					A
qh-Additional	B17(10)1/28A	17-Dec	28-Jan	131					A
qh-Additional	B18(3)2/10A	17-Dec	10-Feb	153					A
qh-Additional	B18(8)2/10A	17-Dec	10-Feb	142					A
qh-Additional	B19(1)2/10A	17-Dec	10-Feb	165					A
qh-Additional	B19(5)2/10A	17-Dec	10-Feb	149					A
qh-Additional	B19(7)2/10A*	17-Dec	10-Feb	158	<0.005	0.016	<0.020	<0.020	A
qi	B22(11)1/20A	14-Dec	20-Jan	121			<0.020		CA
qi-Additional	B22(2)1/28A	14-Dec	28-Jan	141					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
qi-Additional	B22(9)1/28A	14-Dec	28-Jan	146					A
qi	B21(3)2/2A	14-Dec	02-Feb	129			<0.020		CA
qi	B21(5)2/2A	14-Dec	02-Feb	135					A
qi	B21(7)2/2A*	14-Dec	02-Feb	125	<0.005	<0.010	<0.020	<0.020	CA
qi	B21(8)2/2A	14-Dec	02-Feb	135					A
qi-Additional	B22(5)2/2A	14-Dec	02-Feb	126			<0.020		CA
qi-Additional	B22(10)2/2A	14-Dec	02-Feb	152					A
qj	B23(4)1/19A	14-Dec	19-Jan	161					A
qj	B24(5)1/19A	14-Dec	19-Jan	130					A
qj	B24(6)1/19A*	14-Dec	19-Jan	130	<0.005	<0.010	<0.020	<0.020	A
qj	B24(7)1/19A	14-Dec	19-Jan	129			<0.020		CA
qj	B25(2)1/19A	14-Dec	19-Jan	168					A
qk	B25(7)1/19A	14-Dec	19-Jan	138					A
qk	B26(1)1/19A	14-Dec	19-Jan	145					A
qk	B26(3)1/19A*	14-Dec	19-Jan	147	<0.005	<0.010	<0.020	<0.020	A
qk	B26(7)1/19A	14-Dec	19-Jan	140					A
qk	B27(3)1/19A	14-Dec	19-Jan	131					A
ql	H33(13)1/28A	16-Dec	28-Jan	139					A
ql	F32(2)2/9A	16-Dec	09-Feb	165					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
ql	F32(7)2/9A	16-Dec	09-Feb	150					A
ql	G32(6)2/9A	16-Dec	09-Feb	152					A
ql	G32(8)2/9A*	16-Dec	09-Feb	193	<0.005	0.012	0.055	0.056	CA
ql	G32(16)2/9A	16-Dec	09-Feb	181					A
ql	H33(9)2/9A	16-Dec	09-Feb	168					A
ql	G33(5)2/10A	16-Dec	10-Feb	159					A
ql	G33(9)2/10A	16-Dec	10-Feb	162					A
qm	H32(4)1/20A	16-Dec	20-Jan	150					A
qm	H32(9)1/20A	16-Dec	20-Jan	141					A
qm	I32(5)1/20A*	16-Dec	20-Jan	125	<0.005	<0.010	<0.020	<0.020	CA
qm	I32(15)1/20A	16-Dec	20-Jan	164					A
qm	I33(5)1/20A	16-Dec	20-Jan	151					A
qm	I33(15)1/20A	16-Dec	20-Jan	142					A
qm	J33(3)1/20A	16-Dec	20-Jan	157					A
qm	J33(5)1/20A	16-Dec	20-Jan	145					A
qm	J33(13)1/20A	16-Dec	20-Jan	140					A
qm-Additional	J33(6)1/28A	16-Dec	28-Jan	139					A
qn	L33(8)1/20A	16-Dec	20-Jan	132			<0.020		A
qn	L33(15)1/20A*	16-Dec	20-Jan	155	<0.005	<0.010	<0.020	<0.020	A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
qn	M33(15)1/20A	16-Dec	20-Jan	158					A
qn-Additional	J33(1)1/28A	16-Dec	28-Jan	148					A
qn	K33(2)1/28A	16-Dec	28-Jan	147					A
qn	K33(9)1/28A*	16-Dec	28-Jan	155	<0.005	<0.010	0.063	0.054	A
qn	K33(15)1/28A	16-Dec	28-Jan	130					A
qn-Additional	L33(3)1/28A	16-Dec	28-Jan	141					A
qn-Additional	L33(5)1/28A	16-Dec	28-Jan	124			<0.020		CA
qn-Additional	L33(13)1/28A	16-Dec	28-Jan	160					A
qo	M33(3)1/21A*	16-Dec	21-Jan	162	<0.005	0.010	<0.020	<0.020	A
qo	M33(5)1/20A	16-Dec	20-Jan	147					A
qo	N33(3)1/21A	16-Dec	21-Jan	149					A
qo	N33(5)1/21A	16-Dec	21-Jan	162					A
qo	N33(11)1/21A	16-Dec	21-Jan	165					A
qo	N33(13)1/20A*	16-Dec	20-Jan	153	<0.005	0.013	<0.020	<0.020	A
qp	Q33(4)1/21A	17-Dec	21-Jan	154					A
qp	Q34(13)1/21A	17-Dec	21-Jan	152					A
qp	R34(2)1/21A	17-Dec	21-Jan	187					A
qp-Additional	Q33(3)2/4A	17-Dec	04-Feb	141					A
qp-Additional	Q34(9)2/4A	17-Dec	04-Feb	147					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
qp-Additional	R34(13)2/4A	17-Dec	04-Feb	116			<0.020		CA
qp	R33(1)2/11A	17-Dec	11-Feb	155					A
qp	R33(7)2/11A	17-Dec	11-Feb	160					A
qp	R33(10)2/11A*	17-Dec	11-Feb	150	<0.005	<0.010	<0.020	0.037	A
qp	R33(15)2/11A	17-Dec	11-Feb	151					A
qq	S29(8)2/4A	27-Jan	04-Feb	145					A
qq	S29(10)2/4A*	27-Jan	04-Feb	176	<0.005	0.010	<0.020	<0.020	A
qq	S29(16)2/4A	27-Jan	04-Feb	164					A
qq	S30(8)2/4A	27-Jan	04-Feb	144					A
qq	S30(10)2/4A	27-Jan	04-Feb	166					A
qq	S31(11)2/4A	27-Jan	04-Feb	134					A
qq	S31(13)2/4A	27-Jan	04-Feb	140					A
qq	S31(16)2/4A	27-Jan	04-Feb	131					A
qq	S32(9)2/4A	17-Dec	04-Feb	137					A
qq	S32(11)2/4A	17-Dec	04-Feb	134					A
qq	S32(14)2/4A	17-Dec	04-Feb	130					A
qq	S33(7)2/4A*	17-Dec	04-Feb	119	<0.005	<0.010	<0.020	2.509	CA
qq	S33(9)2/4A	17-Dec	04-Feb	121			<0.020		CA
qq	S33(15)2/4A	17-Dec	04-Feb	115			<0.020		A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
qr	E3(6)1/21A	23-Dec	21-Jan	156					A
qr	E3(16)1/21A*	23-Dec	21-Jan	136	<0.005	<0.010	<0.020	<0.020	A
qr	F3(3)1/21A	23-Dec	21-Jan	135					A
qr	F3(12)1/21A	23-Dec	21-Jan	141					A
qr	G3(7)1/21A	23-Dec	21-Jan	120			<0.020		CA
qr-Additional	G3(4)2/2A	23-Dec	02-Feb	137					A
qr	H3(8)2/2A*	23-Dec	02-Feb	132	<0.005	<0.010	<0.020	<0.020	A
qr	H3(16)2/2A	23-Dec	02-Feb	133					A
qr	I3(12)2/2A	23-Dec	02-Feb	147					A
qr	D2(8)2/9A	23-Dec	09-Feb	163					A
qr	D2(15)2/9A*	23-Dec	09-Feb	130	<0.005	<0.010	<0.020	<0.020	A
qr	D3(1)2/9A	23-Dec	09-Feb	164					A
qr	D3(10)2/9A	23-Dec	09-Feb	170					A
qs	I5(7)1/21A*	23-Nov	21-Jan	156	<0.005	<0.010	<0.020	<0.020	A
qs	I5(16)1/21A	23-Nov	21-Jan	140					A
qs	J4(3)1/21A	11-Dec	21-Jan	118			<0.020		CA
qs	J4(12)1/21A	11-Dec	21-Jan	171					A
qs	I4(4)2/2A	23-Nov	02-Feb	148	<0.005	<0.010	<0.020	<0.020	A
qs-Additional	I5(5)2/2A	23-Nov	02-Feb	141					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
qs-Additional	I5(10)2/2A	23-Nov	02-Feb	138					A
qs-Additional	J4(15)2/3A	11-Dec	03-Feb	115			<0.020		A
qs-Additional	I4(6)2/10A*	23-Nov	10-Feb	129	<0.005	<0.010	<0.020	<0.020	CA
qt	J3(8)1/21A	23-Dec	21-Jan	150					A
qt	K3(16)1/21A	23-Dec	21-Jan	181					A
qt	K4(8)1/21A	23-Dec	21-Jan	147					A
qt	K4(10)1/21A	23-Dec	21-Jan	124			<0.020		CA
qt	K4(16)1/21A*	23-Dec	21-Jan	153	<0.005	<0.010	<0.020	<0.020	A
qt	L4(6)1/21A	23-Dec	21-Jan	147					A
qt	L4(12)1/21A	23-Dec	21-Jan	151					A
qt	M4(11)1/21A	23-Dec	21-Jan	137					A
qt	M4(16)1/21A	23-Dec	21-Jan	136					A
qt	I3(8)2/2A	23-Dec	02-Feb	140	<0.005	<0.010	<0.020	<0.020	A
qt-Additional	J3(16)2/2A	23-Dec	02-Feb	133					A
qu	R32(1)2/4A	16-Jan	04-Feb	133					A
qu	R32(3)2/4A	16-Jan	04-Feb	133					A
qu	R32(6)2/4A*	16-Jan	04-Feb	131	<0.005	0.013	<0.020	<0.020	A
qu	R32(9)2/4A	16-Jan	04-Feb	132					A
qu	R32(15)2/4A	16-Jan	04-Feb	136					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
qu-Additional	R32(8)2/11A	16-Jan	11-Feb	161					A
qu-Additional	R32(16)2/11A	16-Jan	11-Feb	160					A
qv	B5(3)2/9A	28-Jan	09-Feb	155					A
qv	B6(2)2/9A	28-Jan	09-Feb	164					A
qv	B6(4)2/9A	28-Jan	09-Feb	184					A
qv	B7(3)2/9A*	05-Feb	09-Feb	158	<0.005	0.011	<0.020	0.028	A
qv	B7(6)2/9A	05-Feb	09-Feb	156					A
qv	B8(1)2/9A	05-Feb	09-Feb	170					A
qw	C4(3)2/9A	23-Dec	09-Feb	163					A
qw	C4(10)2/9A	23-Dec	09-Feb	147					A
qw	C5(10)2/9A	28-Jan	09-Feb	186					A
qw	C5(15)2/9A	28-Jan	09-Feb	160					A
qw	C5(1)2/24A*	28-Jan	24-Feb	180	<0.005	<0.010	0.260	0.051	A
qx	C6(3)2/9A	28-Jan	09-Feb	176					A
qx	C6(6)2/9A	28-Jan	09-Feb	165					A
qx	C6(12)2/9A*	28-Jan	09-Feb	165	<0.005	0.015	<0.020	<0.020	A
qx	C7(5)2/9A	05-Feb	09-Feb	158					A
qx	C7(7)2/9A	05-Feb	09-Feb	168					A
qx	C7(14)2/9A	05-Feb	09-Feb	164					A

TABLE 2
(Continued)

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100 CY LOT	SAMPLE NUMBER ⁽¹⁾	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	TCLP METALS (mg/l)				Status ⁽²⁾
					Cd	Cr	Pb	Zn	
qy	C8(2)2/9A	05-Feb	09-Feb	160					A
qy	C8(5)2/9A*	05-Feb	09-Feb	169	<0.005	<0.010	0.050	0.048	A
qy	C8(9)2/9A	05-Feb	09-Feb	180					A

⁽¹⁾ Sample number designation:

Example: F11(10)8/4A*

F11 - Cell number
 (10) - Subcell number
 8/4 - Sample date
 A - Performance sample
 * - TCLP analysis performed for Cd, Cr, Pb, and Zn

⁽²⁾ Sample Status:

A - Acceptable: Alkalinity of 130,000 through 192,000 mg/Kg
 CA - Conditionally Acceptable: Alkalinity of 115,000 to 130,000 or 192,000 to 215,000 mg/Kg and TCLP Lead <0.218 mg/l
 U - Unacceptable: Alkalinity outside conditionally acceptable range and/or TCLP Lead >0.218 mg/l

⁽³⁾ This table is organized according to lot numbers. Lots "a" through "dn" have been redesignated because they were involved in performance trials.⁽⁴⁾ Treatment began on 9/22/92 and the confirmatory sampling ended on 2/24/93.

TABLE 3
RETENTION RESERVOIR REMEDIATION
SUMMARY OF pH DATA FROM PERFORMANCE TRIALS

KEYSTONE STEEL & WIRE COMPANY
BARONVILLE, ILLINOIS

(Page 1 of 24)

100 CY LOT	SAMPLE NUMBER	TREAT DATE	SAMPLE DATE	ALKALINITY mg/kg (10E-3)	pH
a	E11(18)8/4A	31-Jul	04-Aug	168	12.4
a	E11(21)8/4A	31-Jul	04-Aug	169	12.4
a	F11(6)8/4A	31-Jul	04-Aug	202	12.3
a	F11(10)8/4A*	31-Jul	04-Aug	211	12.4
a	F11(13)8/4A	31-Jul	04-Aug	130	12.3
b	D11(13)8/4A	31-Jul	04-Aug	126	12.4
b	D11(17)8/4A*	31-Jul	04-Aug	60.1	11.2
b	D11(9)8/4A	31-Jul	04-Aug	122	12.4
b	E11(2)8/4A	31-Jul	04-Aug	150	12.3
b	E11(7)8/4A	31-Jul	04-Aug	121	12.4
c	D12(4)8/4A	31-Jul	04-Aug	177	12.5
c	D12(19)8/4A	31-Jul	04-Aug	192	12.5
c	D12(2)8/4A	31-Jul	04-Aug	98.9	12.3
c	D11(11)8/4A*	31-Jul	04-Aug	30	10
c	D11(16)8/4A	31-Jul	04-Aug	159	12.5
d	D14(1)8/6A	03-Aug	06-Aug	227	12.3
d	D15(13)8/6A	03-Aug	06-Aug	77	12.2
d	D14(12)8/6A	03-Aug	06-Aug	189	12.3
d	D14(10)8/6A*	03-Aug	06-Aug	170	12.3
d	D15(21)8/6A	03-Aug	06-Aug	143	12.3
e	D13(1)8/6A	03-Aug	06-Aug	175	12.3

TABLE 3
(Continued)

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e	D13(10)8/6A	03-Aug	06-Aug	212	12.3
e	D13(5)8/6A	03-Aug	06-Aug	124	12.3
e	D13(2)8/6A*	03-Aug	06-Aug	178	12.3
e	D14(17)8/6A	03-Aug	06-Aug	216	12.4
f	D16(14)8/6A	03-Aug	06-Aug	178	12
f	D15(2)8/6A	03-Aug	06-Aug	118	12.2
f	D16(17)8/6A	03-Aug	06-Aug	160	12
f	D16(12)8/6A*	03-Aug	06-Aug	157	12.1
f	D16(9)8/6A	03-Aug	06-Aug	166	12.1
g	D17(16)8/6A	03-Aug	06-Aug	123	11.5
g	D17(11)8/6A	03-Aug	06-Aug	110	11.9
g	D17(3)8/6A	03-Aug	06-Aug	143	11.9
g	D17(6)8/6A	03-Aug	06-Aug	123	11.8
g	D17(5)8/6A*	03-Aug	06-Aug	115	12
g - R	D17(5)8/27A*	25-Aug	28-Aug	190	12.4
g - R	D17(10)8/28A	25-Aug	28-Aug	188	12.4
h	D15(24)8/6A*	03-Aug	06-Aug	165	12.2
i	D18(8)8/10A	05-Aug	10-Aug	76	12
i	D18(11)8/10A	05-Aug	10-Aug	90	12
i	D18(14)8/10A	05-Aug	10-Aug	89	12
i	D18(4)8/10A	05-Aug	10-Aug	90	12
i	C22(19)8/10A	05-Aug	10-Aug	146	12.3
i - R	D18(9)8/28A	05-Aug	28-Aug	197	12.4
i - R	D18(12)8/28A*	25-Aug	28-Aug	128	12.2

TABLE 3
(Continued)

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i - R	D18(14)8/28A*	25-Aug	28-Aug	196	12.3
i - R	D18(3)8/28A	25-Aug	28-Aug	88.6	
j	C22(3)8/10A*	05-Aug	10-Aug	136	12.1
j	C22(5)8/10A	05-Aug	10-Aug	195	12.2
j	C22(10)8/10A	05-Aug	10-Aug	193	12.3
j	C22(11)8/10A	05-Aug	10-Aug	169	12.2
j	C23(13)8/10A	05-Aug	10-Aug	180	12.3
k	D22(4)8/10A*	05-Aug	10-Aug	138	12.2
k	D22(9)8/10A*	05-Aug	10-Aug	98.6	12
k	D22(11)8/10A*	05-Aug	10-Aug	213	12.3
k	D22(15)8/10A*	05-Aug	10-Aug	198	12.3
k	D22(16)8/10A*	05-Aug	10-Aug	203	12.3
l	D23(1)8/10A	05-Aug	10-Aug	191	12.3
l	D23(3)8/10A	05-Aug	10-Aug	205	12.4
l	D23(4)8/10A	05-Aug	10-Aug	192	12.4
l	D23(13)8/10A*	05-Aug	10-Aug	157	12.3
l	D23(14)8/10A	05-Aug	10-Aug	202	12.4
m	C23(3)8/11A	05-Aug	11-Aug	193	12.3
m	C23(7)8/11A	05-Aug	11-Aug	178	12.3
m	C24(10)8/11A	05-Aug	11-Aug	174	12.3
m	C24(17)8/11A	05-Aug	11-Aug	221	12.4
m	C24(19)8/11A*	05-Aug	11-Aug	133	12.3
n	D24(2)8/11A*	05-Aug	11-Aug	124	12.3
n	D24(8)8/11A	05-Aug	11-Aug	204	12.4

TABLE 3
(Continued)

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n	D24(10)8/11A	05-Aug	11-Aug	217	12.4
n	D24(11)	05-Aug			
n	D24(12)	05-Aug			
o	C24(1)8/11A	05-Aug	11-Aug	210	12.4
o	C24(3)8/11A	05-Aug	11-Aug	3.37	9.1
o	C25(7)8/11A	05-Aug	11-Aug	207	12.4
o	C25(10)8/11A	05-Aug	11-Aug	230	12.5
o	C25(13)8/11A*	05-Aug	11-Aug	224	12.5
p	D25(1)8/11A*	05-Aug	11-Aug	5.76	7.5
p	D25(3)8/11A	05-Aug	11-Aug	229	12.3
p	D25(4)8/11A	05-Aug	11-Aug	247	12.4
p	D25(11)8/11A	05-Aug	11-Aug	218	12.5
p	D25(16)8/11A	05-Aug	11-Aug	218	12.5
q	D26(18)8/11A	05-Aug	11-Aug	257	12.4
q	D26(19)8/11A	05-Aug	11-Aug	241	12.5
q	D26(20)8/11A*	05-Aug	11-Aug	210	12.4
q	D26(24)8/11A	05-Aug	11-Aug	248	12.5
q	D26(25)8/11A	05-Aug	11-Aug	241	12.4
q - R	D26(18)8/25A	25-Aug	28-Aug	159	12.4
r	D26(2)8/11A	05-Aug	11-Aug	25.2	9.8
r	D26(3)8/11A	05-Aug	11-Aug	187	12.4
r	D26(5)8/11A	05-Aug	11-Aug	196	12.4
r	D27(7)8/11A	06-Aug	11-Aug	58.36	12.1
r	D27(11)8/11A*	06-Aug	11-Aug	159	12.3

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(Continued)

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s	C26(7)8/11A*	05-Aug	11-Aug	209	12.4
s	C26(5)8/11A	05-Aug	11-Aug	258	12.4
s	C26(13)8/11A	05-Aug	11-Aug	225	12.5
s	C26(14)8/11A	05-Aug	11-Aug	227	12.5
s	C26(10)8/11A	05-Aug	11-Aug	203	12.5
t	C26(3)8/11A	05-Aug	11-Aug	171	12.4
t	C27(6)8/11A	06-Aug	11-Aug	149	12.2
t	C27(7)8/11A	06-Aug	11-Aug	144	12.3
t	C27(9)8/11A*	06-Aug	11-Aug	146	12.3
t	C27(11)8/11A	06-Aug	11-Aug	159	12.3
u	C27(15)8/11A	06-Aug	11-Aug	133	12.3
u	C27(20)8/11A	06-Aug	11-Aug	141	12.3
u	D27(25)8/11A	06-Aug	11-Aug	126	12.4
u	D27(21)8/11A*	06-Aug	11-Aug	206	12.4
u	D27(28)8/11A	06-Aug	11-Aug	7.5	7.6
v	C28(3)8/13A	10-Aug	13-Aug	197	12.3
v	C28(5)8/13A	10-Aug	13-Aug	213	12.4
v	C28(7)8/13A*	10-Aug	13-Aug	181	12.4
v	C28(10)8/13A	10-Aug	13-Aug	199	12.4
v	C28(13)8/13A	10-Aug	13-Aug	216	12.4
w	D28(2)8/13A*	10-Aug	13-Aug	225	12.4
w	D28(3)8/13A	10-Aug	13-Aug	235	12.4
w	D28(4)8/13A	10-Aug	13-Aug	203	12.4
w	D28(5)8/13A	10-Aug	13-Aug	226	12.4

TABLE 3
(Continued)

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w	D28(12)8/13A	10-Aug	13-Aug	225	12.4
x	D29(17)8/13A*	10-Aug	13-Aug	72.6	12.1
x	D29(18)8/13A	10-Aug	13-Aug	170	12.4
x	D29(19)8/13A	10-Aug	13-Aug	163	12.3
x	D29(24)8/13A	10-Aug	13-Aug	134	12.3
x	D28(15)8/13A	10-Aug	13-Aug	170	12.4
y	D29(1)8/13A	10-Aug	13-Aug	202	12.4
y	D29(3)8/13A*	10-Aug	13-Aug	93.6	7.7
y	D29(6)8/13A	10-Aug	13-Aug	155	12.3
z	C29(2)8/13A*	10-Aug	13-Aug	159	12.4
z	C29(3)8/13A	10-Aug	13-Aug	171	12.4
z	C29(7)8/13A	10-Aug	13-Aug	148	12.4
z	C29(10)8/13A	10-Aug	13-Aug	177	12.3
z	C29(13)8/13A	10-Aug	13-Aug	143	12.4
aa	C30(13)8/14A	11-Aug	14-Aug	166	12.3
aa	C30(11)8/14A	11-Aug	14-Aug	94	12.1
aa	C30(9)8/14A*	11-Aug	14-Aug	69.5	11.9
aa	C30(16)8/14A	11-Aug	14-Aug	119	12.1
aa	C30(10)8/14A	11-Aug	14-Aug	128	11.7
ab	D30(3)8/14A	11-Aug	14-Aug	153	12.3
ab	D30(4)8/14A	11-Aug	14-Aug	177	12.3
ab	D30(8)8/14A	11-Aug	14-Aug	174	12.4
ab	D30(10)8/14A	11-Aug	14-Aug	110	11.7
ab	D30(11)8/14A*	11-Aug	14-Aug	102	12.2

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(Continued)

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ac	E30(2)8/14A	11-Aug	14-Aug	118	11.7
ac	E30(5)8/14A	11-Aug	14-Aug	130	12.2
ac	E30(6)8/14A	11-Aug	14-Aug	155	12.3
ac	E30(8)8/14A	11-Aug	14-Aug	150	12.4
ac	E30(10)8/14A*	11-Aug	14-Aug	69	11.8
ad	E30(14)8/11A*	11-Aug	14-Aug	159	12.3
ad	E31(3)8/14A	11-Aug	14-Aug	144	12.3
ad	E31(6)8/14A	11-Aug	14-Aug	145	12.3
ad	E31(7)8/14A	11-Aug	14-Aug	155	12.3
ad	E31(10)8/14A	11-Aug	14-Aug	144	12.3
ae	E31(18)8/14A	11-Aug	14-Aug	146	12.2
ae	D31(9)8/14A	11-Aug	14-Aug	189	12.4
ae	D31(5)8/14A*	11-Aug	14-Aug	188	12.4
ae	D31(15)8/14A	11-Aug	14-Aug	122	12.3
ae	D31(7)	11-Aug			
af	F30(11)8/15A*	11-Aug	14-Aug	164	12.2
af	F30(10)8/15A	12-Aug	15-Aug	144	12.3
af	F30(6)8/15A	12-Aug	15-Aug	159	12.4
af	F30(3)8/15A	12-Aug	15-Aug	151	12.4
af	F30(1)	12-Aug			
ag	F31(3)8/15A	12-Aug	15-Aug	169	12.4
ag	F31(12)8/15A	12-Aug	15-Aug	171	12.4
ag	F31(11)8/15A	12-Aug	15-Aug	182	12.4
ag	F31(7)8/15A*	12-Aug	15-Aug	173	11.9

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(Continued)

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ag	F31(6)8/15A	12-Aug	15-Aug	173	12.4
ah	G30(18)8/15A	12-Aug	15-Aug	116	12.4
ah	G30(23)8/15A	12-Aug	15-Aug	153	12.4
ah	F30(14)8/15A	12-Aug	15-Aug	157	12.4
ah	F30(15)8/15A*	12-Aug	15-Aug	146	12.5
ah	G30(21)	12-Aug			
ai	H31(16)8/15A	12-Aug	15-Aug	163	12
ai	G30(4)8/15A	12-Aug	15-Aug	126	11.9
ai	H31(9)8/15A*	12-Aug	15-Aug	160	12.5
ai	H31(10)8/15A	12-Aug	15-Aug	164	12.1
ai	G30(6)	12-Aug			
aj	G31(13)8/15A	12-Aug	15-Aug	145	12.1
aj	G31(4)8/15A*	12-Aug	15-Aug	147	12.4
aj	G31(16)8/15A	12-Aug	15-Aug	143	12.4
aj	G31(11)8/15A	12-Aug	15-Aug	140	12.4
aj	G31(6)8/15A	12-Aug	15-Aug	177	12.4
ak	H31(7)8/15A*	12-Aug	15-Aug	167	12.4
ak	H31(3)8/15A	12-Aug	15-Aug	176	12.4
ak	H31(1)8/15A	12-Aug	15-Aug	163	12.4
al	I31(11)8/17A	13-Aug	17-Aug	165	12.2
al	I31(15)8/17A*	13-Aug	17-Aug	167	12.3
al	I31(8)8/17A	13-Aug	17-Aug	167	12.4
al	I31(10)8/17A	13-Aug	17-Aug	162	12.4
al	I31(1)8/17A	13-Aug	17-Aug	146	12.4

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(Continued)

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am	J31(14)8/17A*	13-Aug	17-Aug	138	12.1
am	J31(2)8/17A	13-Aug	17-Aug	136	12.2
am	J31(12)8/17A	13-Aug	17-Aug	131	12.3
am	J31(4)8/17A	13-Aug	17-Aug	132	12.3
am	J31(5)	13-Aug			
an	L32(1)8/17A*	13-Aug	17-Aug	160	12.4
an	L32(6)	13-Aug			
an	L32(8)	13-Aug			
ao	J32(24)8/17A*	13-Aug	17-Aug	132	12.2
ao	J32(19)8/17A	13-Aug	17-Aug	131	12.3
ao	J32(30)	13-Aug			
ao	K32(33)	13-Aug			
ao	J32(26)	13-Aug			
ap	K32(5)8/17A	13-Aug	17-Aug	168	12.3
ap	K32(11)8/17A*	13-Aug	17-Aug	156	12.3
ap	K32(2)8/17A	13-Aug	17-Aug	162	12.4
ap	K32(8)	13-Aug			
ap	L32(16)	13-Aug			
aq	F22(18)8/17A	14-Aug	17-Aug	134	12.3
aq	E22(2)8/17A	14-Aug	17-Aug	121	12.2
aq	E22(1)8/17A	14-Aug	17-Aug	127	12.3
aq	E22(5)8/17A	14-Aug	17-Aug	102	12.1
aq	E22(12)8/17A*	14-Aug	17-Aug	132	12.3
ar	G22(18)8/17A	14-Aug	17-Aug	128	12.2

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(Continued)

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ar	G22(15)8/17A	14-Aug	17-Aug	143	12.3
ar	F22(7)8/17A	14-Aug	17-Aug	120	12.3
ar	F22(2)8/17A	14-Aug	17-Aug	122	12.2
ar	F22(10)8/17A*	14-Aug	17-Aug	140	12.3
as	G22(3)8/17A	14-Aug	17-Aug	114	12.3
as	G22(5)8/17A*	14-Aug	17-Aug	129	12.3
as	H22(12)8/17A	14-Aug	17-Aug	150	12.4
as	G22(8)8/17A	14-Aug	17-Aug	143	12.3
as	G22(7)8/17A	14-Aug	17-Aug	126	12.2
at	E19(9)8/20A*	17-Aug	20-Aug	181	12.2
at	F19(23)8/20A	17-Aug	20-Aug	185	12.3
at	E19(10)8/20A	17-Aug	20-Aug	185	12.4
at	E19(5)	17-Aug			
at	E19(12)	17-Aug			
au	F19(1)8/20A	17-Aug	20-Aug	192	12.4
au	G19(19)8/20A*	17-Aug	20-Aug	160	12.4
au	F19(3)	17-Aug			
au	G19(12)	17-Aug			
au	G19(8)	17-Aug			
av	H19(8)8/20A	17-Aug	20-Aug	165	12.5
av	H19(12)8/20A	17-Aug	20-Aug	171	12.4
av	H19(15)8/20A*	17-Aug	20-Aug	164	12.3
av	H19(13)	17-Aug			
aw	I22(11)8/21A*	18-Aug	21-Aug	137	12.2

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(Continued)

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aw	I22(16)8/21A	18-Aug	21-Aug	152	12.3
aw	I22(4)	18-Aug			
aw	I22(9)	18-Aug			
aw	J22(21)	18-Aug			
ax	K22(16)8/21A*	18-Aug	21-Aug	119	12.2
ax	J22(3)8/21A	18-Aug	21-Aug	155	12.3
ax	K22(9)8/21A	18-Aug	21-Aug	127	12.2
ax	J22(1)	18-Aug			
ax	L22(23)	18-Aug			
ay	N22(23)8/21A	19-Aug	21-Aug	189	12.4
ay	M22(11)8/21A	18-Aug	21-Aug	196	12.3
ay	M22(2)8/21A*	18-Aug	21-Aug	159	12.4
ay	M22(3)	18-Aug			
ay	M21(15)	18-Aug			
az	N21(15)8/21A	19-Aug	21-Aug	193	12.3
az	N21(18)8/21A	19-Aug	21-Aug	188	12.3
az	N21(19)8/21A	19-Aug	21-Aug	174	12.4
az	N22(7)8/21A*	19-Aug	21-Aug	159	12.3
az	N22(11)8/21A	19-Aug	21-Aug	193	12.4
ba	D19(2)8/21/A	19-Aug	21-Aug	132	12.2
ba	D19(13)8/21A*	19-Aug	21-Aug	89.5	12.1
ba	D19(8)	19-Aug			
ba- R	D19(2)8/27A	25-Aug	27-Aug	126	12.1
ba- R	D19(13)8/27A	25-Aug	27-Aug	104	12.2

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(Continued)

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ba- R	D19(8)	25-Aug			
bb	I19(3)8/21A*	18-Aug	21-Aug	133	12.2
bb	I19(12)8/21A	18-Aug	21-Aug	162	12.3
bb	I19(9)	18-Aug			
bb	I19(13)	18-Aug			
bc	J20(13)8/21A	19-Aug	21-Aug	121	12.2
bc	J20(5)8/21A*	19-Aug	21-Aug	117	12.1
bd	L20(5)8/21A*	19-Aug	21-Aug	136	12.2
bd	L20(11)	19-Aug			
bd	L20(12)	19-Aug			
bd	K20(24)	19-Aug			
bd	K20(26)	19-Aug			
be	N21(2)8/21A*	19-Aug	21-Aug	190	12.3
be	N21(6)8/21A	19-Aug	21-Aug	138	12.3
be	M20(12)8/21A*	19-Aug	21-Aug	156	12.2
be	M20(9)8/21A	19-Aug	21-Aug	155	12.2
be	M20(20)				
bf	M32(5)8/21A*	19-Aug	21-Aug	190	12.3
bf	M32(9)8/21A	19-Aug	21-Aug	180	12.4
bf	M32(11)8/21A	19-Aug	21-Aug	194	12.4
bf	M32(2)8/21A	19-Aug	21-Aug	192	12.3
bf	M32(7)8/21A	19-Aug	21-Aug	172	12.3
bg	M32(15)8/21A	19-Aug	21-Aug	169	12.3
bh	L32(6)8/21A	19-Aug	21-Aug	144	12.2

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bi	N32(3)8/24A*	20-Aug	24-Aug	194	12.5
bi	N32(1)8/24A	20-Aug	24-Aug	172	12.4
bi	N32(11)8/24A	20-Aug	24-Aug	178	12.5
bi	N32(5)	20-Aug			
bi	N32(8)	20-Aug			
bj	O32(19)8/24A	20-Aug	24-Aug	158	12.5
bj	O32(23)8/24A*	20-Aug	24-Aug	139	12.4
bj	O32(27)8/24A	20-Aug	24-Aug	162	12.4
bj	O32(21)	20-Aug			
bj	O32(25)	20-Aug			
bk	P32(13)8/24A	21-Aug	24-Aug	197	12.4
bk	P32(9)8/24A	21-Aug	24-Aug	204	12.4
bk	P32(6)8/24A*	21-Aug	24-Aug	173	12.4
bk	O32(1)8/24A	20-Aug	24-Aug	188	12.4
bk	P32(15)	20-Aug			
bl	Q32(13)8/24A*	21-Aug	24-Aug	219	12.4
bl	Q32(10)8/24A	21-Aug	24-Aug	218	12.4
bl	Q32(5)	21-Aug			
bl	Q32(4)	21-Aug			
bl	Q32(16)	21-Aug			
bm	P32(1)8/24A	21-Aug	24-Aug	224	12.4
bn	E23(9)8/24A	21-Aug	24-Aug	186	12.3
bn	E23(7)8/24A	21-Aug	24-Aug	195	12.4
bn	E23(10)8/24*	21-Aug	24-Aug	200	12.4

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bn	E23(6)8/24A	21-Aug	24-Aug	192	12.4
bn	E23(12)8/24A	21-Aug	24-Aug	194	12.4
bo	D23(1)8/24A*	21-Aug	24-Aug	190	12.4
bo	D23(13)8/24A*	21-Aug	24-Aug	180	12.4
bp	E26(15)8/25A	21-Aug	25-Aug	159	12.3
bp	E26(10)8/25A*	21-Aug	25-Aug	190	12.3
bp	E26(13)8/25A	21-Aug	25-Aug	188	12.3
bp	E26(1)	21-Aug			
bp	E26(3)	21-Aug			
bp	E26(8)	21-Aug			
bq	D26(18)8/25A*	21-Aug	25-Aug	159	12.4
bq	D26(2)8/27A*	21-Aug	27-Aug	150	12.4
bq	E26(8)8/27A*	21-Aug	27-Aug	213	12.4
br	E27(8)8/27A*	24-Aug	27-Aug	201	12.3
br	E27(10)8/27A	24-Aug	27-Aug	168	12.3
br	E27(11)8/27A	24-Aug	27-Aug	154	12.4
br	E27(14)8/27A	24-Aug	27-Aug	163	12.3
br	E27(1)	24-Aug			
br	E27(3)	24-Aug			
bs	E28(5)8/27A	24-Aug	27-Aug	184	12.4
bs	E28(7)8/27A	24-Aug	27-Aug	151	12.4
bs	E28(8)8/27A*	24-Aug	27-Aug	197	12.4
bs	E28(10)8/27A	24-Aug	27-Aug	197	12.4
bs	E28(14)8/27A	24-Aug	27-Aug	189	12.4

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bs	E28(15)8/27A	24-Aug	27-Aug	214	12.4
bt	Q29(5)8/27A*	25-Aug	27-Aug	169	12.3
bt	Q29(11)8/27A	25-Aug	27-Aug	182	12.4
bt	Q29(4)	25-Aug			
bt	Q29(8)	25-Aug			
bt	Q29(12)	25-Aug			
bu	E24(2)8/27A	24-Aug	27-Aug	208	12.3
bu	E24(10)8/27A*	24-Aug	27-Aug	199	12.4
bu	E24(15)8/27A	24-Aug	27-Aug	219	12.4
bu	E24(5)8/27A	24-Aug	27-Aug	196	12.4
bu	E24(12)8/27A	24-Aug	27-Aug	201	12.4
bv	E25(3)8/27A*	24-Aug	27-Aug	190	12.4
bv	E25(6)8/27A	24-Aug	27-Aug	192	12.4
bv	E25(4)8/27A	24-Aug	27-Aug	196	12.4
bv	E25(12)8/27A	24-Aug	27-Aug	191	12.4
bv	E25(8)	24-Aug			
bw	P29(3)8/28A	26-Aug	28-Aug	190	12.3
bw	P29(5)8/28A*	26-Aug	28-Aug	217	12.4
bw	P29(12)8/28A	26-Aug	28-Aug	232	12.5
bw	P29(13)8/28A	26-Aug	28-Aug	237	12.5
bw	P29(14)8/28A	26-Aug	28-Aug	232	12.5
bx	P28(4)8/28A	26-Aug	28-Aug	215	12.5
bx	P28(12)8/28A*	26-Aug	28-Aug	203	12.5
bx	P28(3)	26-Aug			

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bx	P28(5)	26-Aug			
bx	P28(6)	26-Aug			
by	O29(6)8/28A	26-Aug	28-Aug	232	12.5
by	O29(8)8/28A	26-Aug	28-Aug	239	12.4
by	O29(10)8/28A	26-Aug	28-Aug	250	12.5
by	O29(11)8/28A	26-Aug	28-Aug	216	12.5
by	O29(12)8/28A*	26-Aug	28-Aug	228	12.5
bz	O28(7)8/28A*	26-Aug	28-Aug	215	12.5
bz	O28(11)8/28A	26-Aug	28-Aug	223	12.5
bz	O28(2)	26-Aug			
bz	O28(6)	26-Aug			
bz	O28(14)	26-Aug			
ca	N28(8)8/28A*	26-Aug	28-Aug	237	12.5
ca	N28(2)	26-Aug			
ca	N28(10)	26-Aug			
ca	N28(14)	26-Aug			
ca	N28(15)	26-Aug			
cb	Q26(6)8/31A	27-Aug	31-Aug	213	12.3
cb	P26(13)8/31A*	27-Aug	31-Aug	196	12.3
cb	P26(14)8/31A	27-Aug	31-Aug	189	12.4
cb	Q26(8)	27-Aug			
cb	P26(16)	27-Aug			
cc	R26(22)8/31A*	27-Aug	31-Aug	126	12.2
cc	R26(24)8/31A	27-Aug	31-Aug	130	12.2

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cc	R26(26)8/31A	27-Aug	31-Aug	134	12.3
cc	R26(28)8/31A	27-Aug	31-Aug	157	12.4
cc	R26(17)	27-Aug			
cd	P26(5)8/31A	27-Aug	31-Aug	186	12.4
cd	P26(7)8/31A	27-Aug	31-Aug	192	12.4
cd	O26(27)8/31A*	27-Aug	31-Aug	190	12.4
cd	O26(29)8/31A	27-Aug	31-Aug	190	12.4
cd	O26(30)8/31A	27-Aug	31-Aug	170	12.4
ce	O26(18)8/31A	27-Aug	31-Aug	166	12.3
ce	N26(1)8/31A	27-Aug	31-Aug	157	12.3
ce	N26(10)8/31A	27-Aug	31-Aug	183	12.4
ce	N26(6)8/31A*	27-Aug	31-Aug	191	12.4
ce	O26(20)	27-Aug			
cf	N28(2)8/31A	26-Aug	31-Aug	232	12.3
cf	N28(10)8/31A*	26-Aug	31-Aug	234	12.3
cf	N28(14)8/31A	26-Aug	31-Aug	242	12.4
cf	N28(15)8/31A	26-Aug	31-Aug	219	12.4
cf	N28(8)	26-Aug			
cg	M28(3)8/31A	28-Aug	31-Aug	186	12.4
cg	M28(6)8/31A*	28-Aug	31-Aug	231	12.4
cg	M28(7)8/31A	28-Aug	31-Aug	229	12.4
cg	M28(1)	26-Aug			
cg	M28(5)	26-Aug			
ch	J28(16)9/3A*	31-Aug	03-Sep	222	12.2

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ch	J27(11)	31-Aug			
ch	J27(10)	31-Aug			
ch	J27(12)9/3A	31-Aug	03-Sep	154	11.9
ch	J27(9)9/3A	31-Aug	03-Sep	239	11.8
ci	D4(9)	01-Sep			
ci	D4(6)	01-Sep			
ci	D4(13)	01-Sep			
ci	D4(14)9/3A*	01-Sep	03-Sep	200	12.1
ci	D4(8)9/3A	01-Sep	03-Sep	204	12.1
cj	E4(10)9/3A	01-Sep	03-Sep	227	12.2
cj	E4(12)9/3A*	01-Sep	03-Sep	217	12.3
cj	E4(9)	01-Sep			
cj	E4(4)9/3A	01-Sep	03-Sep	224	12.2
cj	E4(5)	01-Sep			
ck	I27(1)	01-Sep			
ck	I27(11)9/3A*	01-Sep	03-Sep	223	12.2
ck	I27(6)9/3A	01-Sep	03-Sep	227	12.2
ck	I27(5)9/3A	01-Sep	03-Sep	213	12.1
ck	I27(8)9/3A	01-Sep	03-Sep	239	12.1
cl	J28(8)9/3A*	31-Aug	03-Sep	239	12.1
cl	J27(6)9/3A	31-Aug	03-Sep	197	12.1
cl	J28(7)9/3A	31-Aug	03-Sep	246	12.3
cl	J27(5)	31-Aug			
cl	J27(2)	31-Aug			

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(Continued)

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cm	H25(15)	01-Sep			
cm	H25(9)9/3A*	01-Sep	03-Sep	178	12.1
cm	H25(3)9/3A	01-Sep	03-Sep	194	12.1
cm	H25(4)	01-Sep			
cm	H25(11)9/3A	01-Sep	03-Sep	198	12.1
cn	H26(3)	01-Sep			
cn	H26(15)	01-Sep			
cn	H26(9)9/3A	01-Sep	03-Sep	181	12.3
cn	H26(12)9/3A*	01-Sep	03-Sep	195	12.2
cn	H26(11)9/3A	01-Sep	03-Sep	194	12.2
co	H27(8)	01-Sep			
co	H27(13)	01-Sep			
co	H27(4)	01-Sep			
co	H27(9)9/3A*	01-Sep	03-Sep	193	12.3
co	H27(10)9/3A	01-Sep	03-Sep	191	12.2
cp	K28(18)9/3A	31-Aug	03-Sep	220	12.2
cp	K28(21)9/3A	31-Aug	03-Sep	219	12.3
cp	K28(23)9/3A*	31-Aug	03-Sep	228	12.3
cp	K28(22)9/3A	31-Aug	03-Sep	237	12.3
cp	K27(14)	31-Aug			
cq	L28(19)9/3A	28-Aug	03-Sep	236	12
cq	L28(18)9/3A*	28-Aug	03-Sep	244	12
cq	M28(13)	28-Aug			
cq	L28(22)9/3A	28-Aug	03-Sep	252	12.3

TABLE 3
(Continued)

(Page 20 of 24)

cq	L28(21)	28-Aug			
cr	L27(20)	28-Aug			
cr	L27(21)	28-Aug			
cr	L27(18)	28-Aug			
cr	L28(9)	28-Aug			
cr	L27(17)	28-Aug			
cs	K27(2)	31-Aug			
cs	K27(3)	01-Sep			
cs	K27(1)	31-Aug			
cs	K28(5)9/3A	31-Aug	03-Sep	243	12.3
cs	K28(10)9/3A*	31-Aug	03-Sep	237	12.2
ct	J25(11)9/4A	02-Sep	04-Sep	254	12.4
ct	J25(5)	02-Sep			
ct	J25(7)9/4A	02-Sep	04-Sep	263	12.3
ct	J25(3)9/4A*	02-Sep	04-Sep	247	12.4
ct	J25(6)9/4A	02-Sep	04-Sep	257	12.4
cu	I25(12)	02-Sep			
cu	I25(16)	02-Sep			
cu	I25(1)	02-Sep			
cu	I25(6)9/4A	02-Sep	04-Sep	223	12.4
cu	I25(13)9/4A*	02-Sep	04-Sep	208	12.4
cv	L26(6)	02-Sep			
cv	M26(4)	02-Sep			
cv	L26(4)	02-Sep			

TABLE 3
(Continued)

(Page 21 of 24)

cv	L26(3)9/4A	02-Sep	04-Sep	199	12.4
cv	M26(5)9/4A*	02-Sep	04-Sep	124	12.2
cw	R25(2)	02-Sep			
cw	R25(13)	02-Sep			
cw	R25(10)9/4A	02-Sep	04-Sep	244	12.3
cw	R25(15)9/4A*	02-Sep	04-Sep	254	12.3
cx	L25(11)9/4A*	02-Sep	04-Sep	207	12.4
cx	L25(12)9/4A	02-Sep	04-Sep	200	12.4
cx	L25(10)9/4A	02-Sep	04-Sep	199	12.4
cx	L25(6)9/4A	02-Sep	04-Sep	198	12.3
cx	L25(8)9/4A*	02-Sep	04-Sep	213	12.4
cy	K25(8)9/4A	02-Sep	04-Sep	205	12.4
cy	K25(10)9/4A	02-Sep	04-Sep	211	12.4
cy	K25(7)9/4A	02-Sep	04-Sep	190	12.4
cy	K25(3)9/4A*	02-Sep	04-Sep	195	12.3
cy	K25(4)9/4A	02-Sep	04-Sep	208	12.3
cz	F4(12)9/4A	02-Sep	04-Sep	198	12.3
cz	F4(13)	02-Sep			
cz	F4(10)9/4A	02-Sep	04-Sep	194	12.3
cz	F4(2)9/4A	02-Sep	04-Sep	229	12.3
cz	F4(7)9/4A*	02-Sep	04-Sep	187	12.3
da	G4(5)	02-Sep			
da	G4(10)	02-Sep			
da	G4(15)9/4A	02-Sep	04-Sep	235	12.3

TABLE 3
(Continued)

(Page 22 of 24)

da	G4(3)9/4A*	02-Sep	04-Sep	247	12.3
da	G4(14)9/4A	02-Sep	04-Sep	251	12.3
db	I4(1)	02-Sep			
db	I4(4)	02-Sep			
db	H4(8)	02-Sep			
db	H4(4)9/4A*	02-Sep	04-Sep	244	12.3
db	H4(1)	02-Sep			
dc	M11(8)	04-Sep			
dc	M11(4)	04-Sep			
dc	M11(14)9/8A*	04-Sep	08-Sep	242	12.2
dd	M10(5)	04-Sep			
dd	M10(9)	04-Sep			
dd	M10(8)9/8A*	04-Sep	08-Sep	219	12.2
dd	M10(3)	04-Sep			
de	J5(9)	03-Sep			
de	J5(4)	03-Sep			
de	J5(6)9/8A	03-Sep	08-Sep	198	12.2
de	J5(2)9/8A*	03-Sep	08-Sep	80.4	12
de	J5(11)9/8A	03-Sep	08-Sep	98.7	12.1
df	M6(10)9/8A	03-Sep	08-Sep	123	12.2
df	M6(11)9/8A*	03-Sep	08-Sep	105	12.1
dg	N6(14)9/8A	03-Sep	08-Sep	135	12.1
dg	N6(8)	03-Sep			
dg	N6(4)	03-Sep			

TABLE 3
(Continued)

(Page 23 of 24)

dg	O6(11)9/8A*	03-Sep	08-Sep	165	12.1
dg	N6(13)9/8A	03-Sep	08-Sep	125	12.1
dh	K5(11)9/8A	03-Sep	08-Sep	184	12.2
dh	K5(7)9/8A*	03-Sep	08-Sep	214	12.2
dh	K5(9)	03-Sep			
dh	K5(15)9/8A	03-Sep	08-Sep	183	12.2
di	P6(15)9/8A	03-Sep	08-Sep	152	12
di	P6(2)	03-Sep			
di	P6(10)9/8A*	03-Sep	08-Sep	158	12.2
di	O6(8)9/8A	03-Sep	08-Sep	157	12.1
di	P6(6)9/8A	03-Sep	08-Sep	131	12.1
dj	R21(9)9/8A	03-Sep	08-Sep	211	12.2
dj	R21(7)	03-Sep			
dj	R21(3)9/8A*	03-Sep	08-Sep	214	12.2
dj	R22(3)9/8A	03-Sep	08-Sep	247	12
dj	R22(4)9/8A	03-Sep	08-Sep	231	12.1
dk	R23(16)9/8A*	03-Sep	08-Sep	230	12.4
dk	R23(1)	03-Sep			
dk	R23(15)9/8A	03-Sep	08-Sep	216	12.4
dk	R23(8)9/8A	03-Sep	08-Sep	255	12.3
dk	R23(11)9/8A	03-Sep	08-Sep	238	12.4
dl	R24(15)9/8A	03-Sep	08-Sep	189	12.3
dl	R24(1)	03-Sep			
dl	R24(14)9/8A	03-Sep	08-Sep	220	12.3

TABLE 3
(Continued)

(Page 24 of 24)

dl	R24(5)9/8A	03-Sep	08-Sep	203	12.3
dl	R24(10)9/8A*	03-Sep	08-Sep	289	12.3
dm	R20(11)9/8A	03-Sep	08-Sep	203	12.1
dm	R20(9)9/8A	03-Sep	08-Sep	210	12.4
dm	R20(5)9/8A*	03-Sep	08-Sep	203	12.4
dn	Q18(11)9/8A	03-Sep	08-Sep	205	12.2
dn	Q18(2)	03-Sep			
dn	Q18(7)9/8A	03-Sep	08-Sep	203	12.2
dn	P18(15)9/8A	03-Sep	08-Sep	226	12.4
dn	Q18(5)9/8A*	03-Sep	08-Sep	167	12.4

(1) Sample number designation:

Example: F11(10)8/4A*

F11 - Cell number
(10) - Subcell number
8/4 - Sample date
A - Performance sample
* - TCLP analysis performed for Cd, Cr, Pb, and Zn

(2) Sample points located too close to a treatment boundary were not sampled.

(3) Performance trials began on 7/31/92 and were completed on 9/8/92.

TABLE 5

RETENTION RESERVOIR REMEDIATION
CHRONOLOGICAL SUMMARY OF CLOSURE ACTIVITIES

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

	Activity	Start Date	Completion Date
1	Installation of 20-foot grid system by ERM-North Central and Clark Engineers	6/22/92	7/02/92
2	On-site mobilization by ITEX	7/07/92	7/31/92
3	In-situ pilot tests by ITEX	7/27/92	7/30/92
4	ITEX conduct performance trials	7/31/92	9/03/92
5	Performance sampling by ERM-North Central and PDC during performance trials	8/04/92	9/08/92
6	ITEX conduct trial runs using procedures in Quality Assurance/Quality Control Procedure Plan	9/20/92	9/22/92
7	Achievement of acceptable treatment by ITEX	9/22/92	3/23/93
8	Performance sampling by ERM-North Central and PDC during acceptable treatment period	9/24/92	3/24/93
9	ERM-North Central prepared Contract Documents for Analytical Services for RCRA Delisting Sample Analysis	2/17/93	3/16/93
10	Keystone evaluates bids from laboratories for Delisting Analytical services	3/26/93	(1)
11	ERM-North Central prepare and submit Annual Report to IEPA	3/15/93	3/31/93

Note:

(1) Laboratory not selected as of the date of this report. Selection scheduled for April 2, 1993.

REF ID: A621303B
DATE: 2/23/05 FILE NUMBER: 00000000000000000000
PROJECT: KCKW ESDS
TEST: RETENTION RESERVOIR REMEDIATION

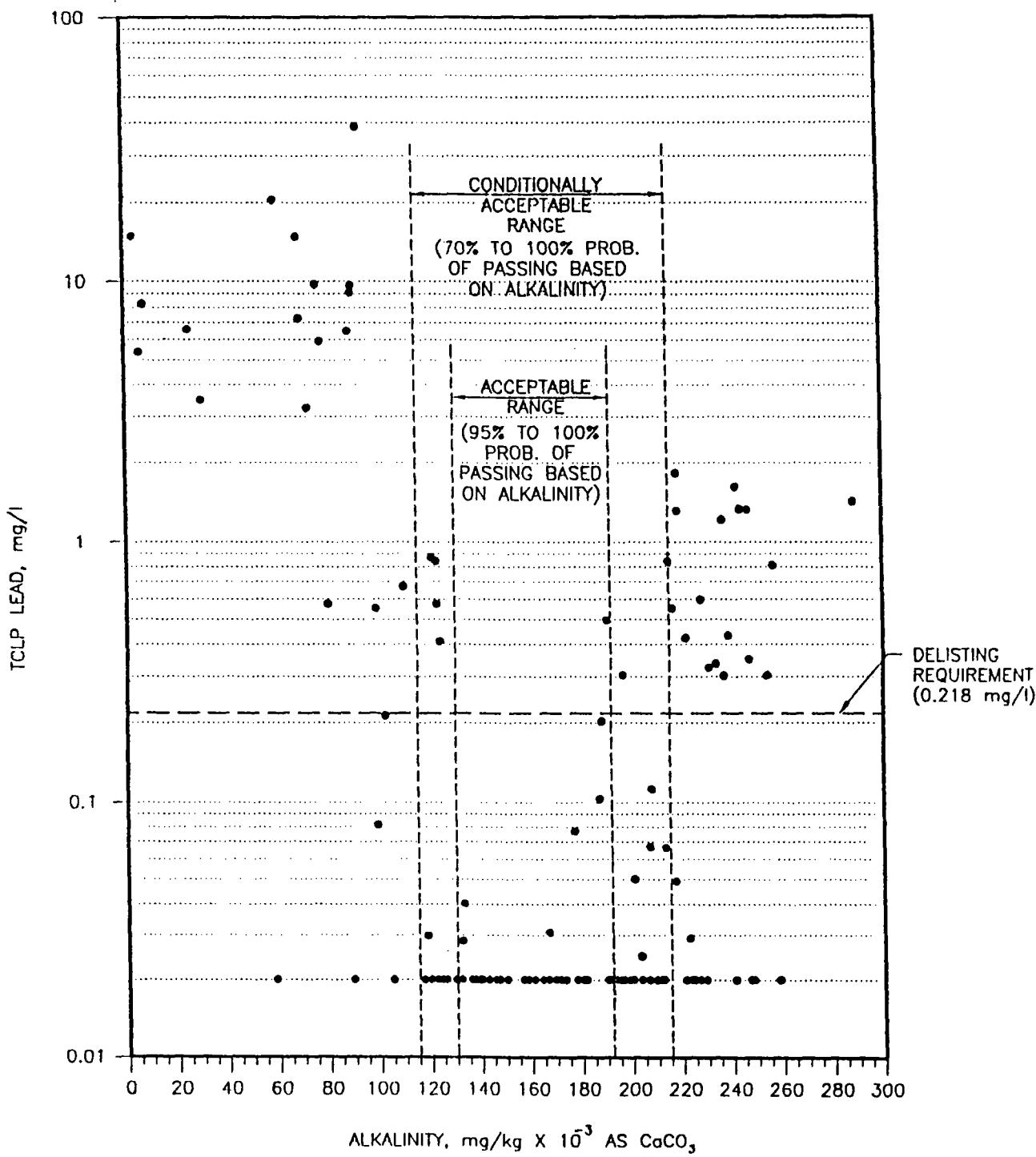


FIGURE 1
ALKALINITY VS. TCLP LEAD
PERFORMANCE TRIALS

ERM

32-3553
4C9W
EDB
3/26/93
TCLP
FTC2
KEYSTONE, STEEL & WIRE -
RETENTION RESERVOIR REMEDIATION

AFFECT OF ALKALINITY ON PROBABILITY OF
TCLP LEAD EXCEEDING DELISTING REQUIREMENTS

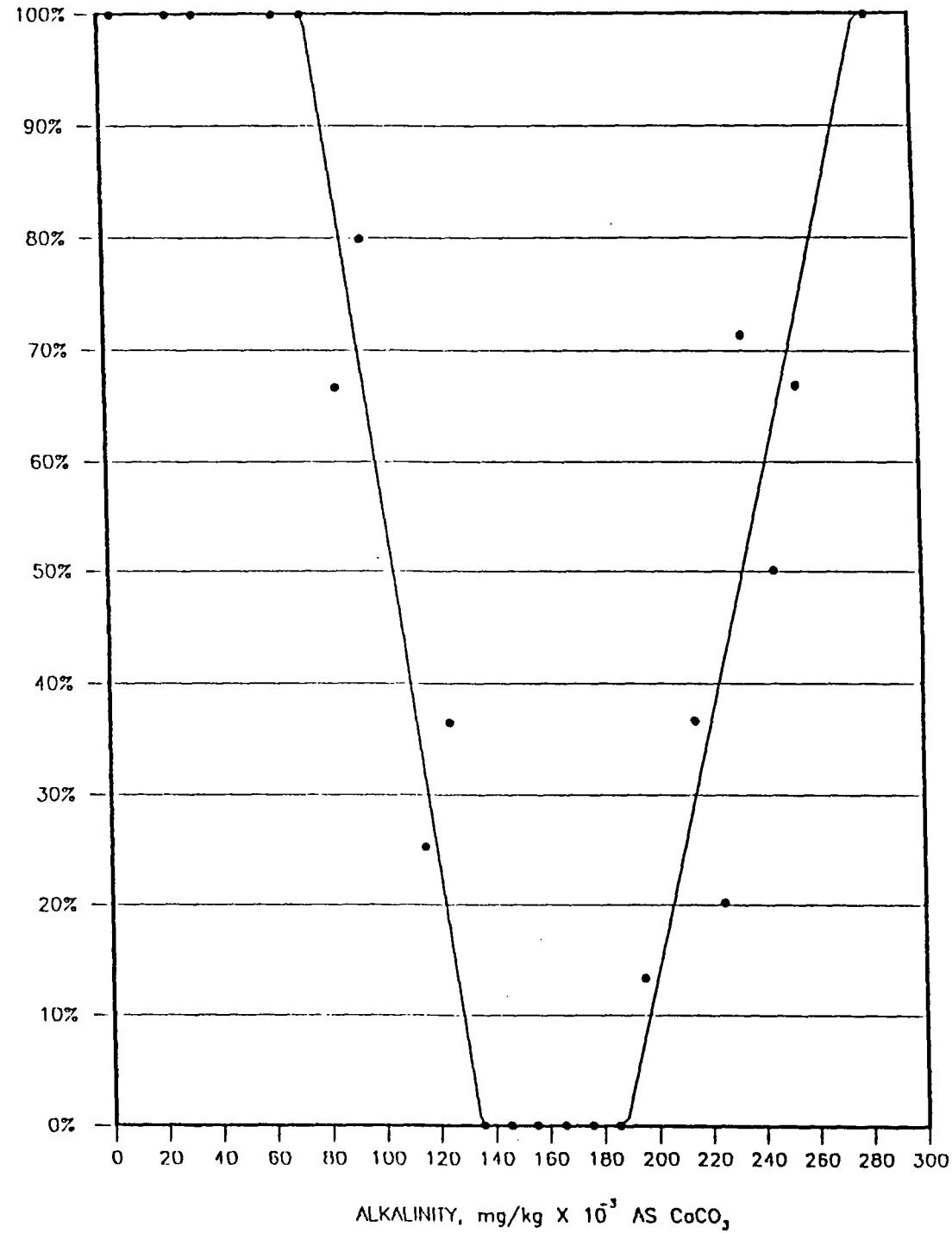
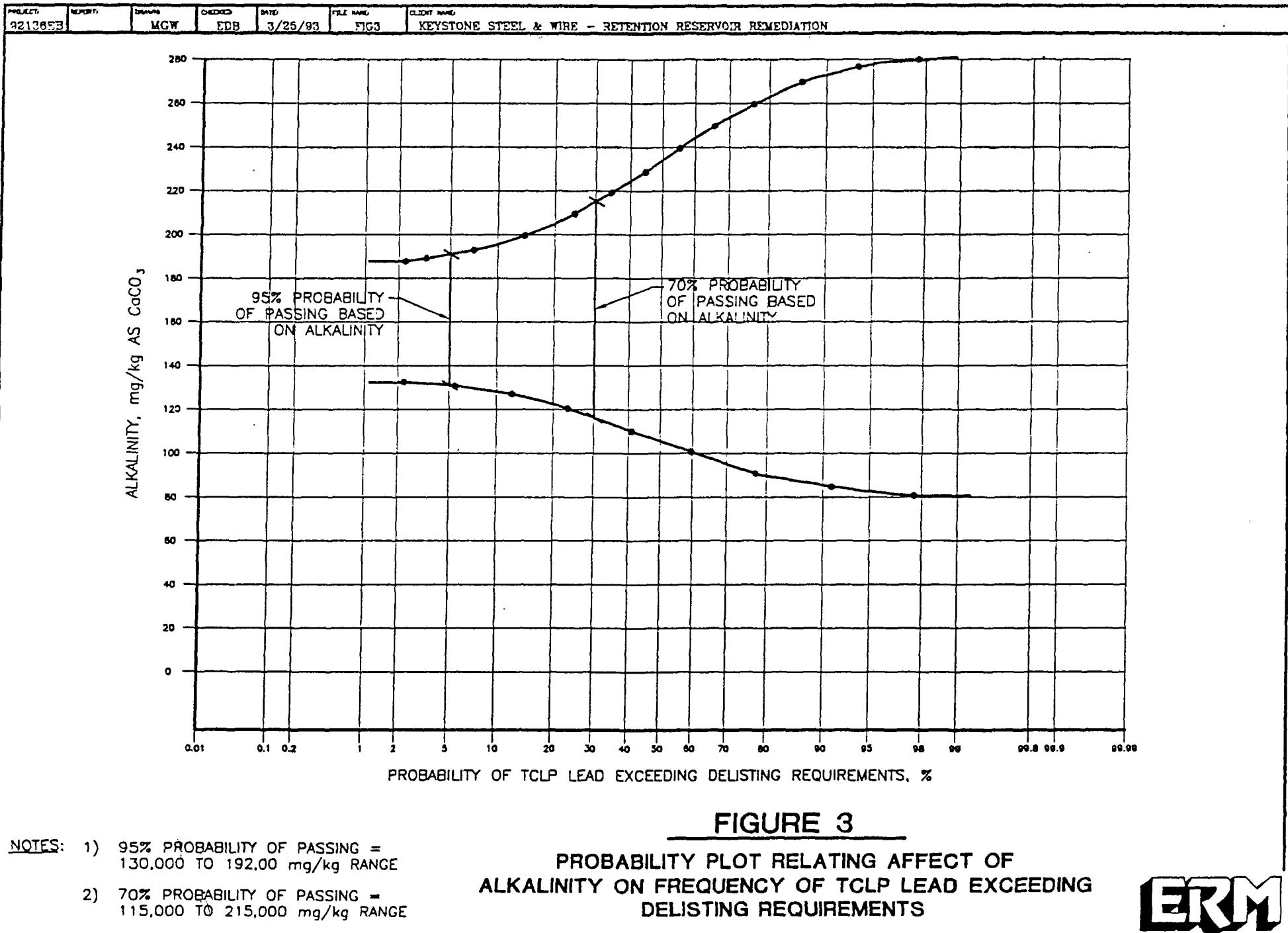


FIGURE 2

AFFECT OF ALKALINITY ON PROBABILITY OF
TCLP LEAD EXCEEDING DELISTING REQUIREMENTS

ERM



ERM

RELEASER	APRIL	DATA	CLIENT
9213653	MGW	EDB	KEYSONITE STEEL & WIRE - RETENTION RESERVOIR REMEDIATION
			FIG.4
			3/25/93

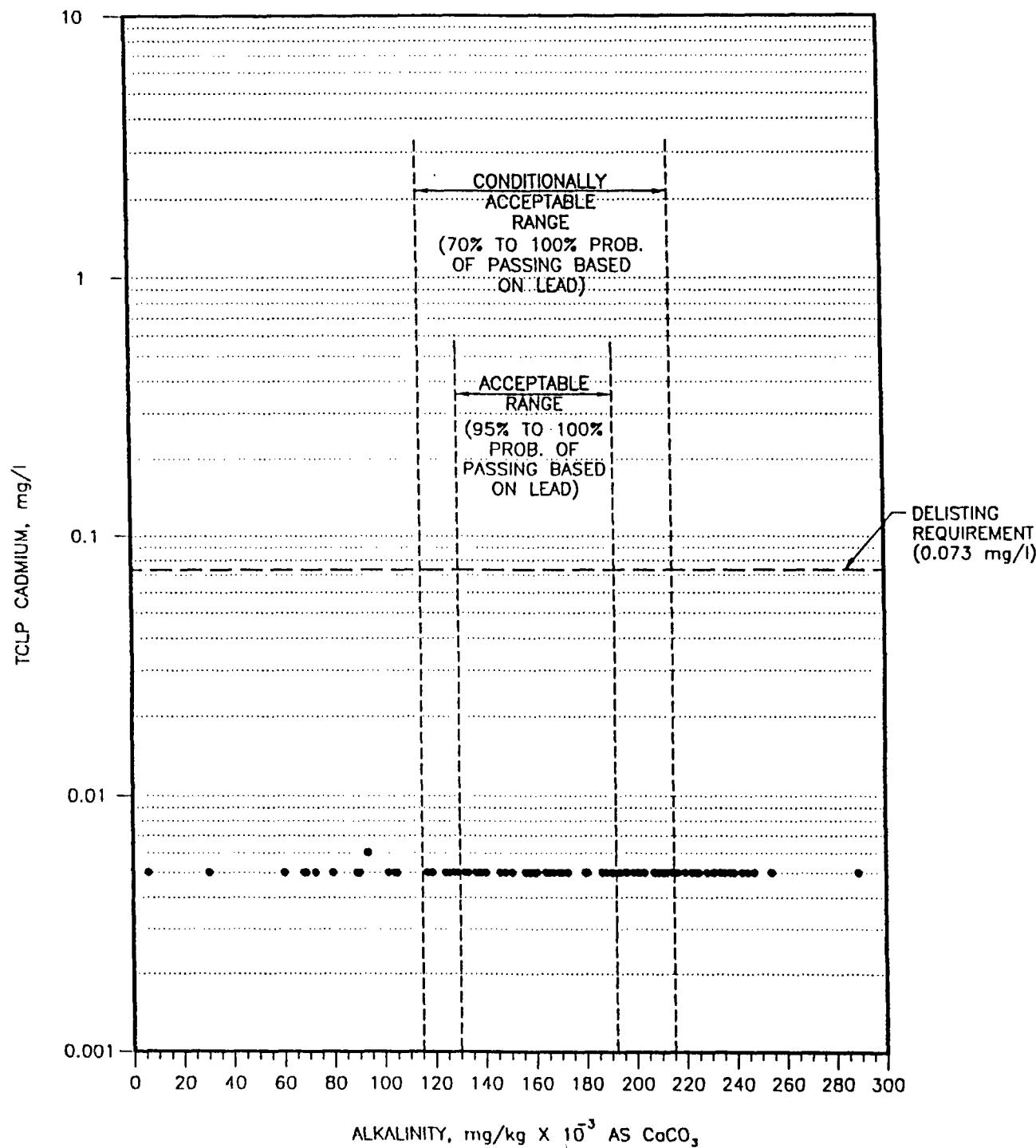


FIGURE 4
ALKALINITY VS. TCLP CADMIUM
PERFORMANCE TRIALS

ERM

Project # 921362B Report Date 3/23/93 File No. FIGS EDB MGT

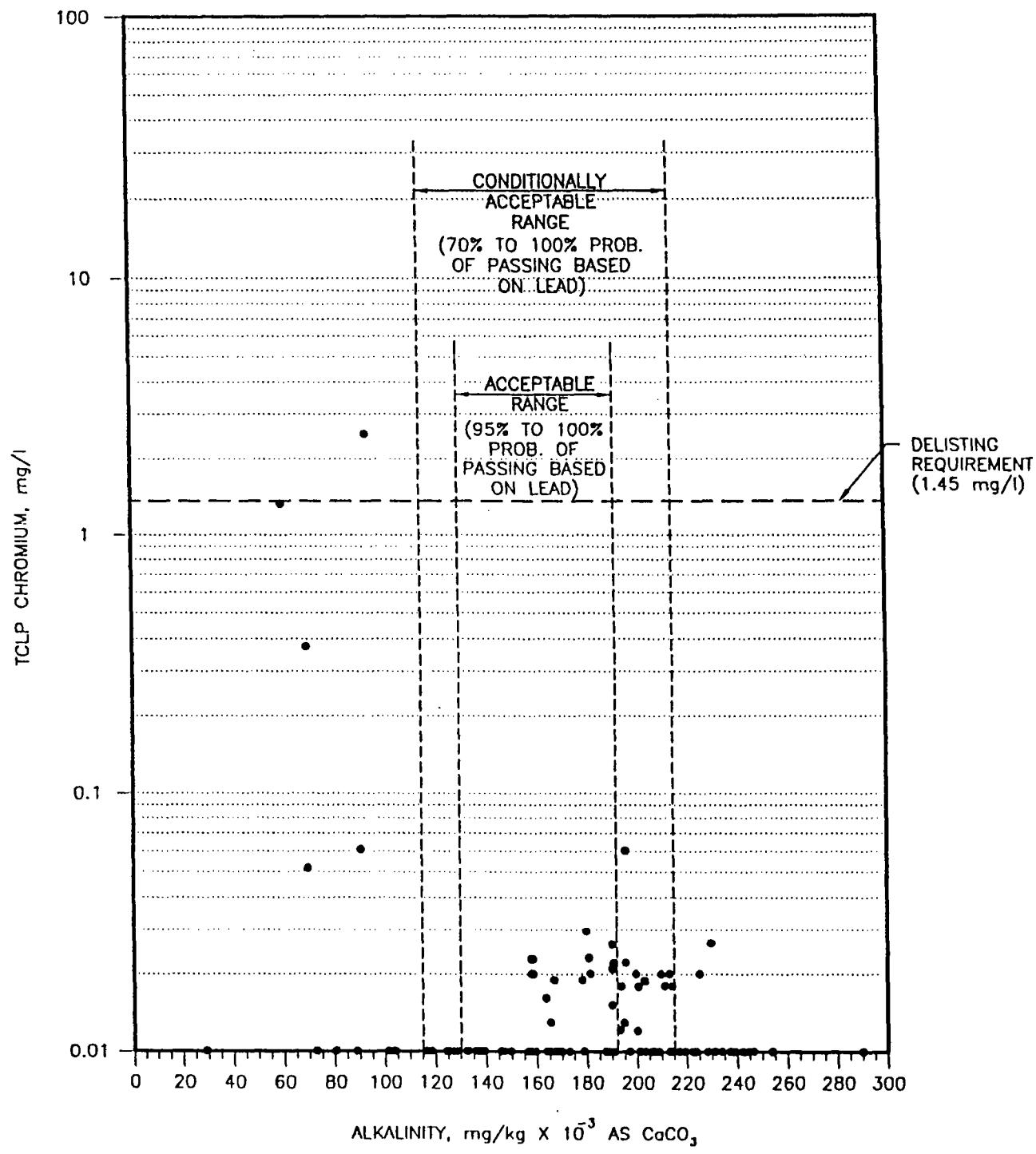


FIGURE 5
ALKALINITY VS. TCLP CHROMIUM
PERFORMANCE TRIALS

ERM

PROJ#	SPN#	DATA	OPCODE	INFO	CLIENT
92136E3		MCM	EDB	3/22/93	FTCGB
KEYSTONE STEEL & WIRE - RETENTION RESERVOIR REMEDIATION					

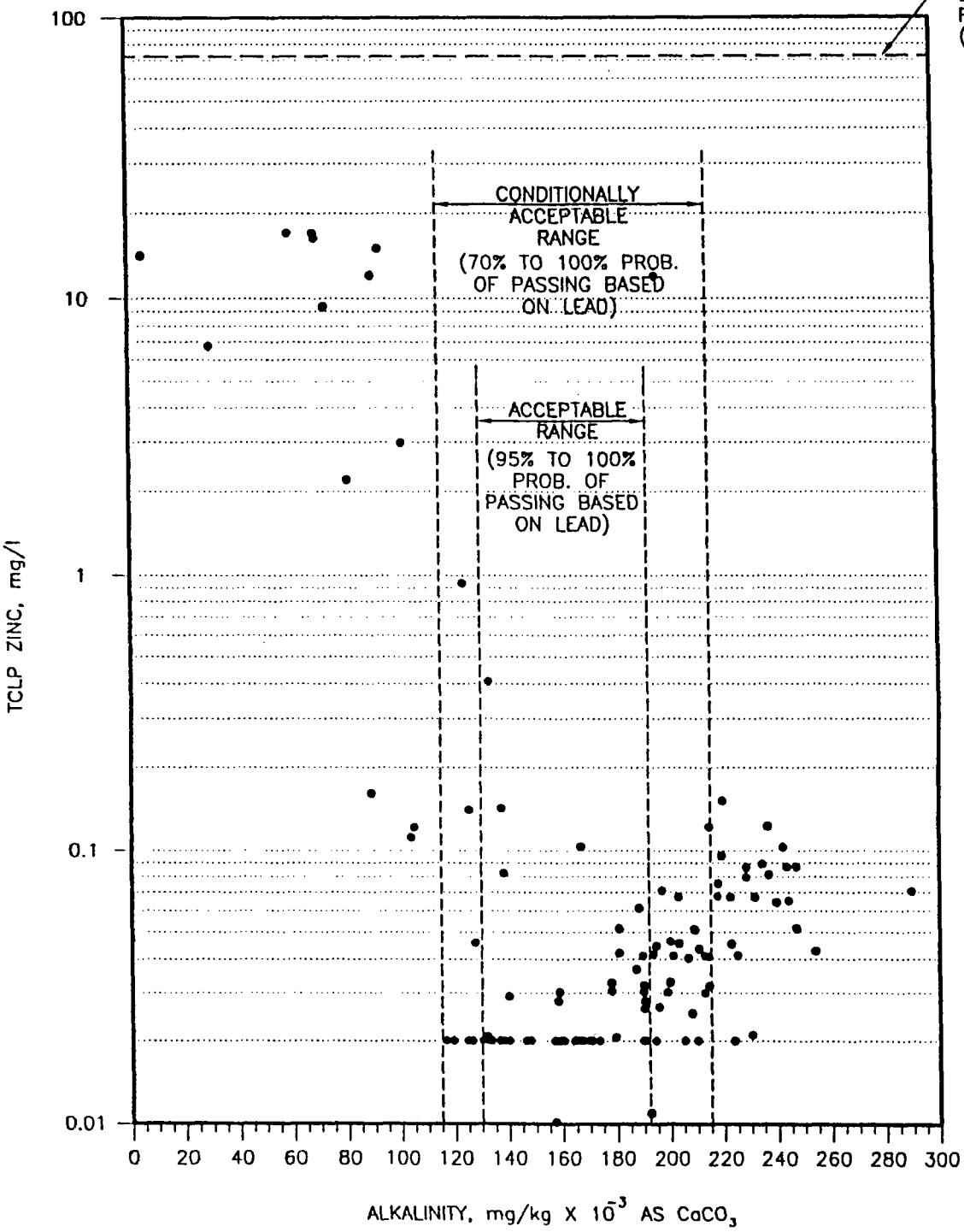


FIGURE 6
ALKALINITY VS. TCLP ZINC
PERFORMANCE TRIALS

ERM

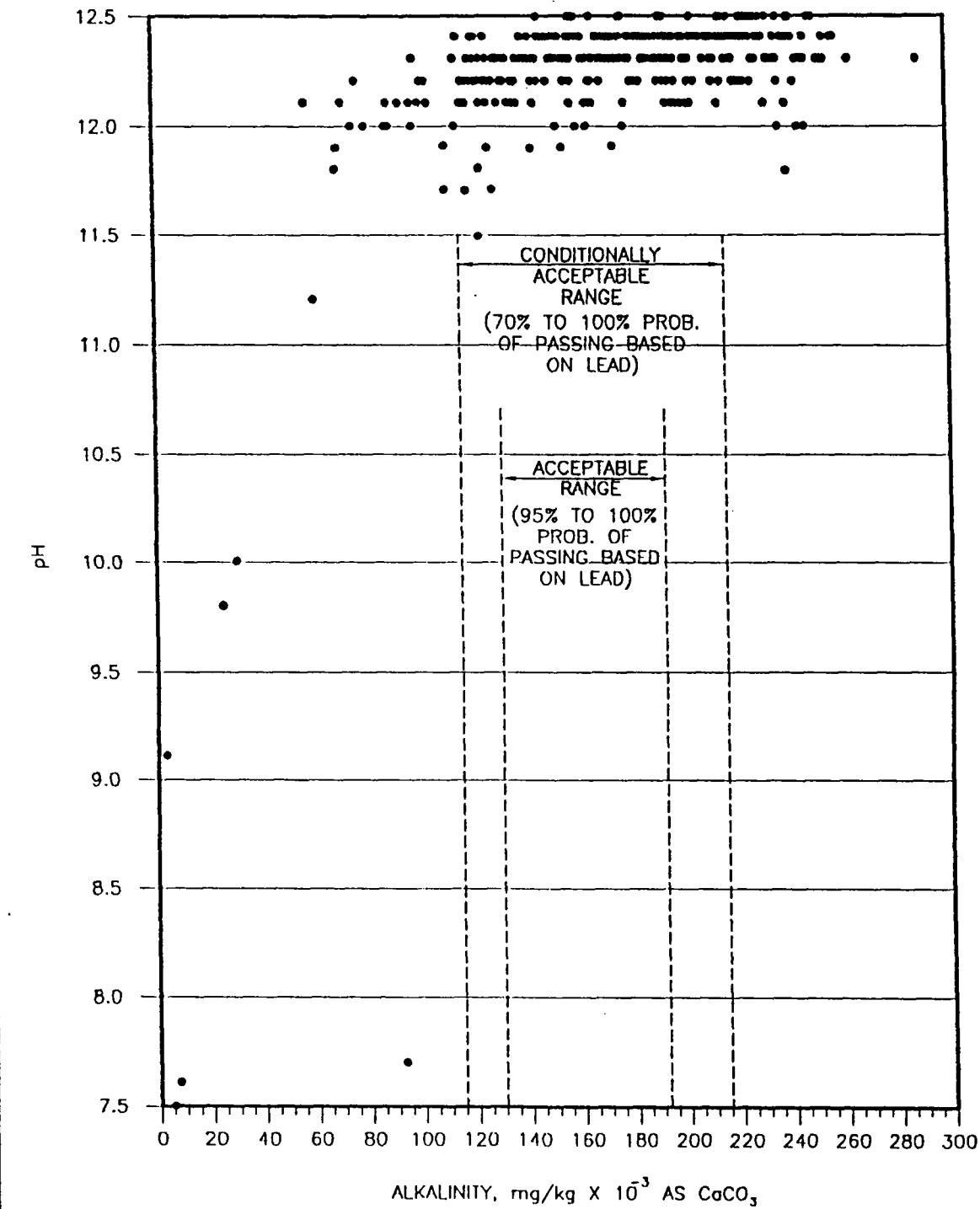
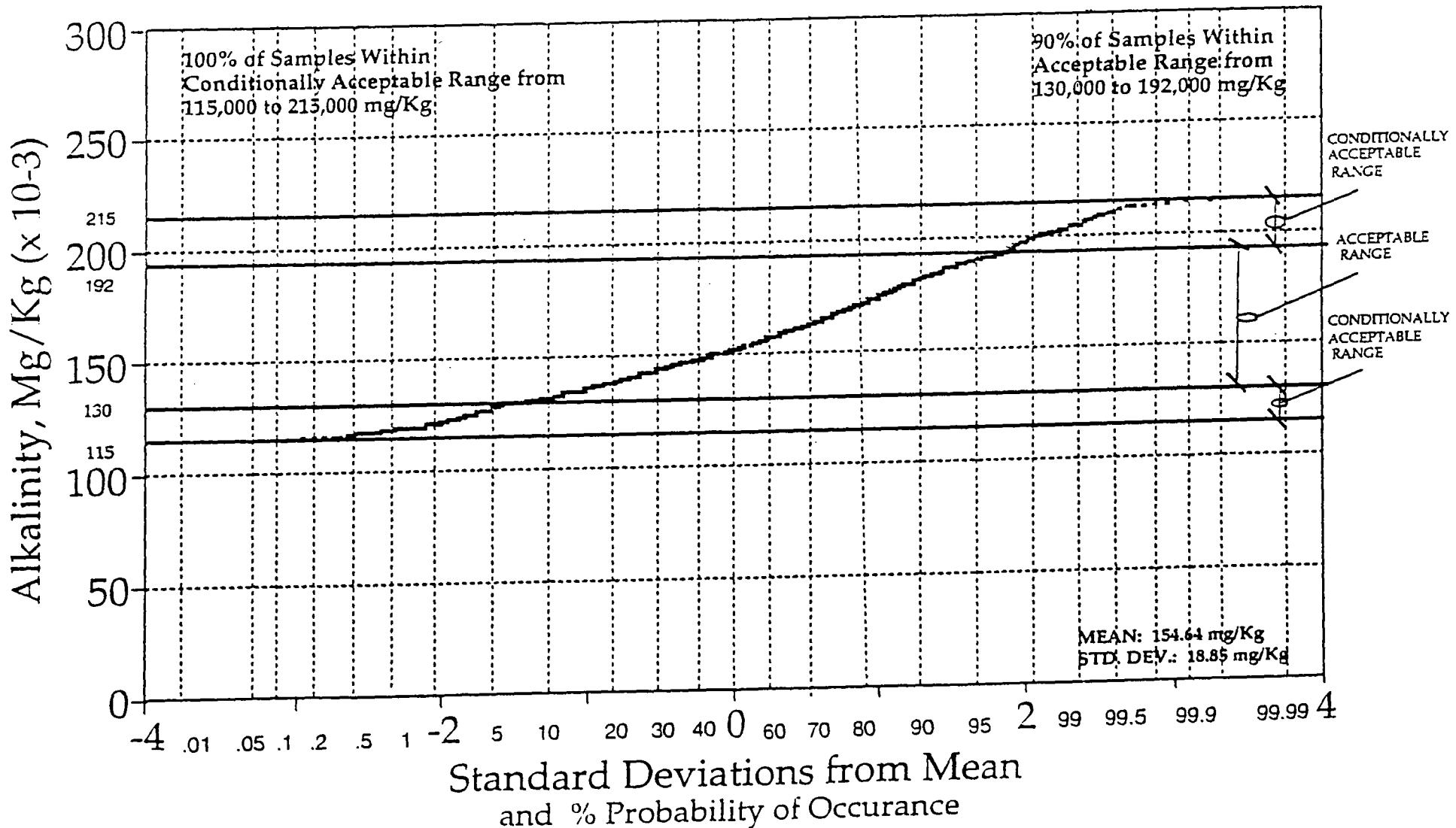


FIGURE 7
ALKALINITY VS. PH
PERFORMANCE TRIALS

Figure 8
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity for All Treated Material
 During Acceptable Treatment Period



PROJECT: 9213633 REPORT: 34000
 OWNER: MCHW DATE: 3/23/93
 EDB FIG7
 KEYSTONE STEEL & WIRE - RETENTION RESERVOIR REMEDIATION

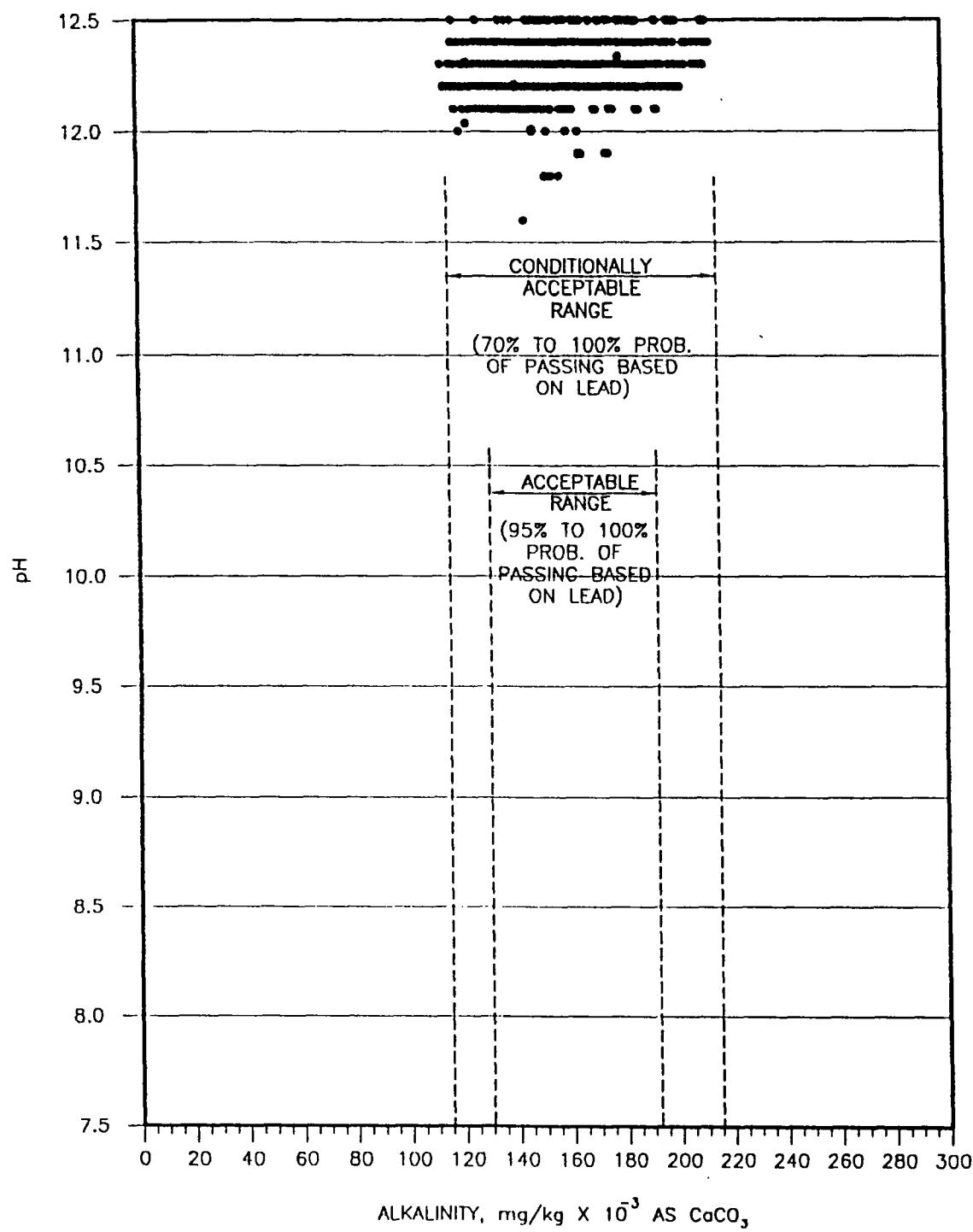


FIGURE 9
 ALKALINITY VS. PH
 ACCEPTABLE TREATMENT PERIOD

ERM

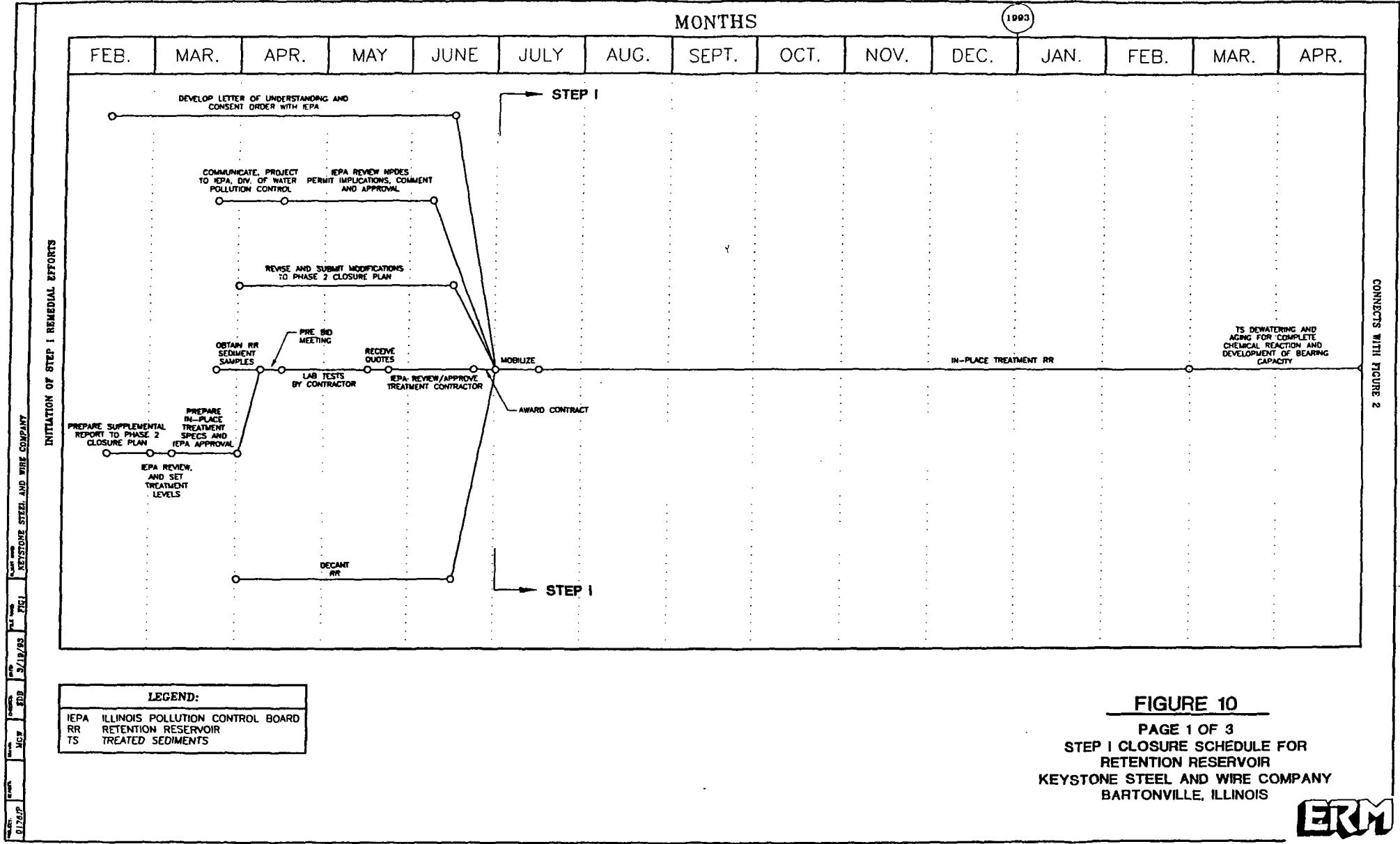
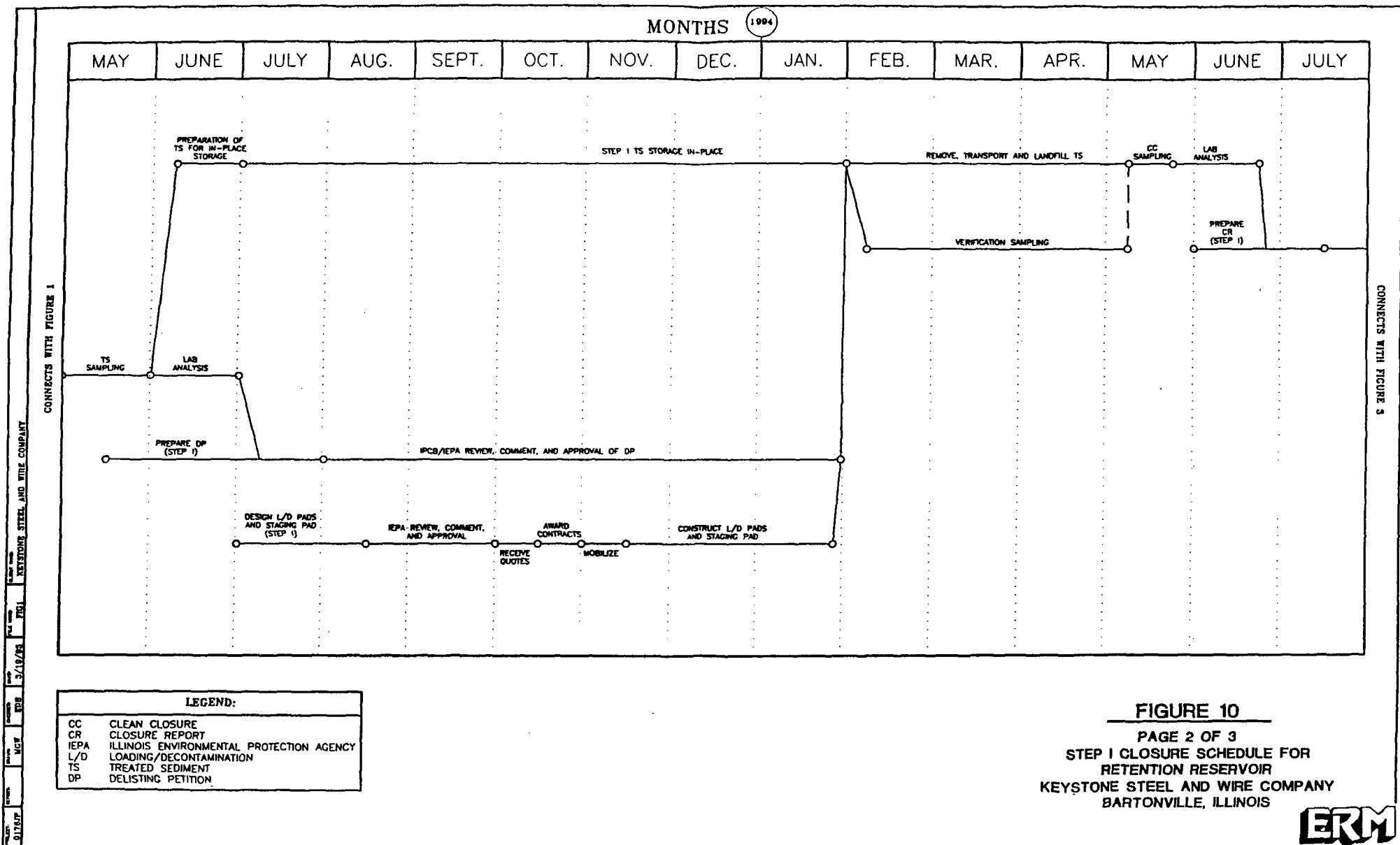
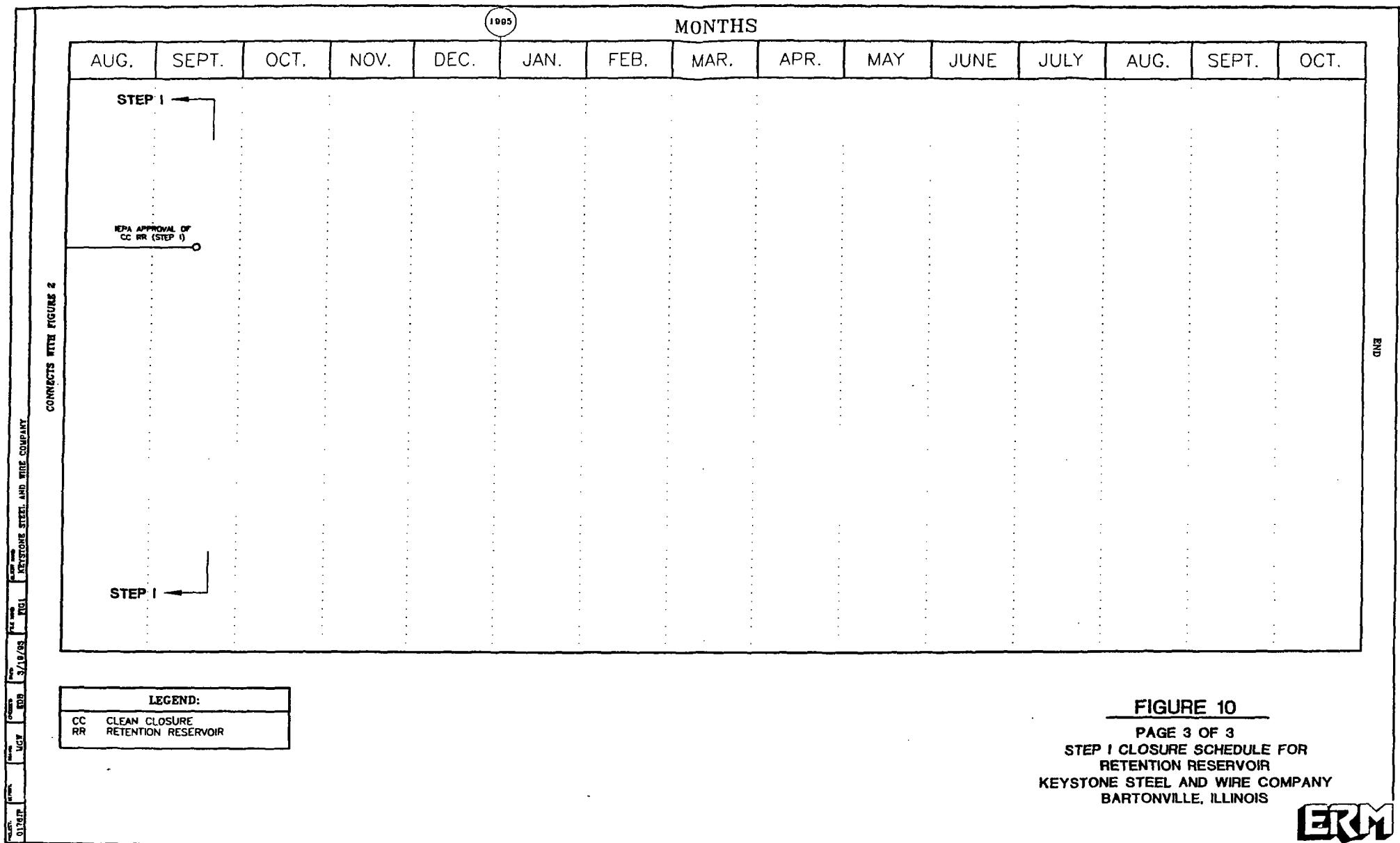


FIGURE 10
PAGE 1 OF 3
STEP I CLOSURE SCHEDULE FOR
RETENTION RESERVOIR
KEYSTONE STEEL AND WIRE COMPANY
BARTONVILLE, ILLINOIS

ERM





APPENDIX A

**SUPPLEMENTAL INFORMATION ON THE
ITEX IN-SITU TREATMENT SYSTEM**

In-Situ Stabilization Process

In-situ stabilization/solidification activities are performed with the waste and contaminated soils in their present location, therefore preventing excavation and handling of the waste outside of the contaminated area. This process produces a homogeneous and thoroughly treated material with enhanced physical characteristics without potential spread of contamination.

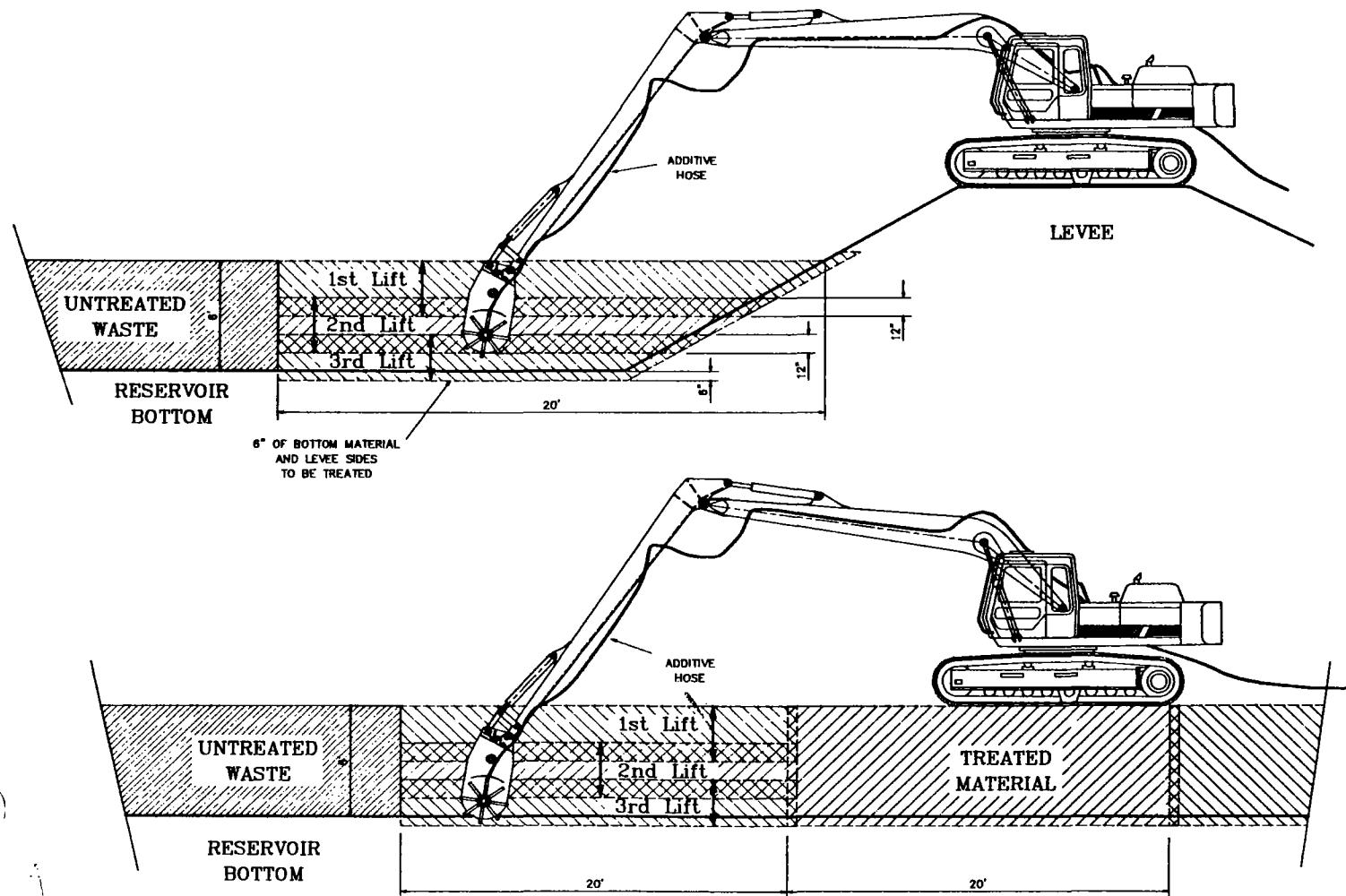
ITEX conducts in-situ remediation of waste materials with an in-situ processor designed and fabricated by ITEX. The unit consists of a hydraulic powered grinding/mixing head attached to the boom of a long reach excavator. The long reach boom allows the equipment to operate on stable material and treat waste in a forty to fifty foot radius. The in-situ process unit can operate from levees, previously treated material or specially designed barges fabricated by ITEX. The hydraulics for the processor are supplied to the excavator's auxiliary hydraulic unit and are controlled by the operator. The system has the capability of variable speeds up to 800 revolutions per minute in both the forward and reverse directions. Through the use of a hydraulic pressure monitoring system the operator is able to determine the consistency of the material that is being mixed due to variation in the hydraulic pressure. This provides the operator with the ability to distinguish treated material from untreated waste, the location of the bottom, and the changing viscosity of the material as it is being treated. These features allow the unit the flexibility to adapt to different treatment scenarios as required by the remediation plan and to monitor the thorough treatment of waste with varying consistencies and properties.

The grinding/mixing operation of the process unit will decrease the particle size of the waste creating a uniform homogenous material that mixes well with the solidifying reagent. The processor is designed to feed a continuous supply of Chemical Fixation/Solidification (FCS) additives which are added to the waste during the grinding/mixing operation. The additives can be introduced in a powder or a slurry mixture depending on the waste characteristics and treatability goals.

ITEX in-situ units have successfully treated steel industry hazardous waste to delisting standards. Petrochemical and mining waste have also been successfully treated with ITEX in-situ processing.

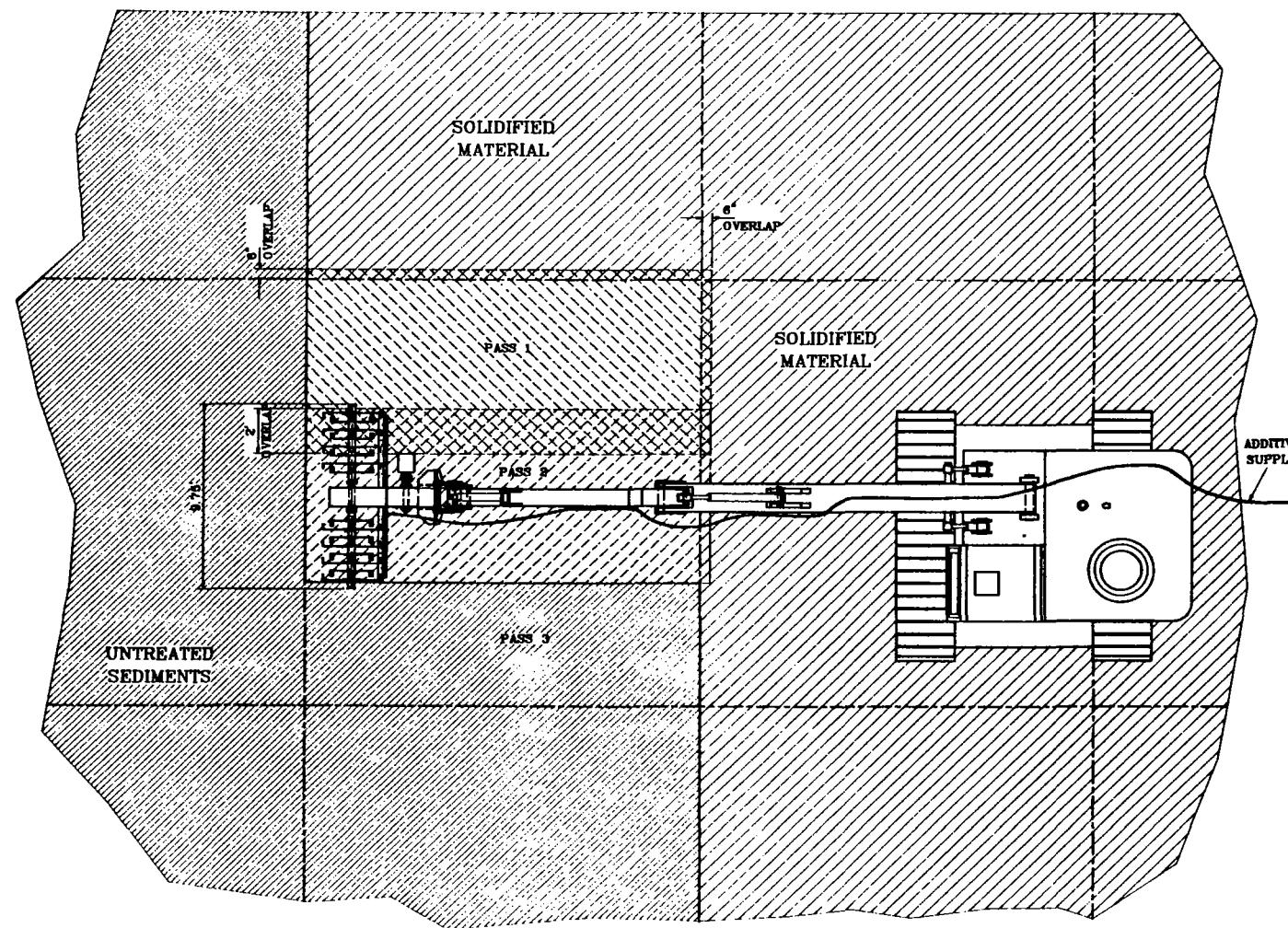
IN SITU TREATMENT

VERTICAL OVERLAP



IN SITU TREATMENT

HORIZONTAL OVERLAP





ITEX ENTERPRISES, INC.

IN-SITU REMEDIATION PROCESS



ITEX ENTERPRISES, INC.

IN-SITU ARCHON UNIT



ITEX ENVIRONMENTAL SERVICES, INC.

IN-SITU REMEDIATION PROCESS



ITEX ENTERPRISES, INC.

IN-SITU PROCESS UNIT

QUALITY ASSURANCE/QUALITY CONTROL

PROCEDURES PLAN

Prepared For:

Keystone Steel and Wire Company

Retention Reservoir Soil
Solidification/Stabilization Project



ITEX™
ENTERPRISES, INC.

**QUALITY ASSURANCE/QUALITY CONTROL
PROCEDURES PLAN**

for

Keystone Steel and Wire Company

Retention Reservoir Soil

. Solidification/Stabilization Project

**Prepared by:
ITEX Enterprises, Inc.
4570 Westgrove Drive, Suite 240
Addison, Tx 75248**

The following site specific Quality Assurance/Quality Control (QA/QC) Procedures Plan has been developed to establish the methods and standards by which the hazardous waste treatment process parameter data will be collected, sampled, tested, analyzed and or evaluated. The primary goal of these procedures is to provide enough data to achieve the highest levels of control and understanding of each treatment parameter and its influence on the Solidification/Stabilization process. As a result of these procedures, deficiencies may be recognized immediately and appropriate corrective measures taken prior to significantly impacting the project.

This QA/QC Plan is broken down into five sections. They are:

Section I	Description of Treatment Parameters to be Monitored
Section II	Field Activities and Responsibilities
Section III	Testing Procedures
Section IV	Document Control
Section V	Sample Documentation

Section I Description of Treatment Parameters to be Monitored

A number of treatment parameters will be monitored to control the consistency of the waste material, the quality of the individual additives and the blended product, the additive offloading methods, the depth of the waste to be treated and the effectiveness of the treatment process. The specific parameters to be monitored are:

- Percentage of solids in premixed waste
- Depth probing of waste prior to treatment
- Additive prior to blending
- Blended delivered product
- Blending process at mixing plant
- Independent weight of blended product delivery truck
- Continuous scale monitoring of additive offloading
- Calibration of mixing plant/Mixing Plant Quality Control
- Treated waste alkalinites
- Treatment calculations
- Remixing of Treated Waste

Section II Field Activities and Responsibilities

The field implementation of this plan will follow a practical sequence of procedures in four major areas of the treatment process:

- 1) Additive blending
- 2) Additive delivery and injection
- 3) Waste evaluation
- 4) Remixed treated waste evaluation

The following will outline the specific QA/QC data collection tasks to be performed by ITEX personnel.

Additive Blending

To ensure the quality of the cement and lime additives and the quality of blending, ITEX will place a QA/QC Technician at the blending site for oversight of the operation. His responsibilities will include:

- 1) Random sampling of cement and lime additive trucks at a minimum of once every five loads per additive. If necessary, samples will be tested for compliance with standards as set forth between the additive supplier and ITEX. Upon successful treatment of the cells relating to the specified samples, the samples will be discarded from storage.
- 2) Technician will monitor and document that the loading/blending operation was performed properly. Individual additives are to be loaded into the weighing/batching hopper in 1000 lb batches. Air jets will be supplied to the hopper and used to blend the additive. The air jets will be flowing air continuously during the loading operation. Each mixing plant weight ticket will be accompanied by additional documentation from the ITEX plant QA/QC Technician indicating that proper blending procedures were observed. It will be the responsibility of the plant QA/QC Technician to assign each truck an identification number (format to be determined). This I.D. number will be carried throughout the QA/QC documentation. The QA/QC Technician has the authority to reject any truck deemed not in compliance with blending procedures. Upon rejection, QA/QC Technician shall notify the plant operator and the ITEX Project Manager. Non compliance loads will not be allowed on the jobsite. Immediate investigation of blending deficiencies will be initiated to determine and remedy problems.

- 3) Each truckload of blended product will be sampled during the loading process. Initially, five grab samples will be taken during the blended material loading process. After enough data has been collected indicating that thorough mixing is being accomplished, the sampling rate may be reduced to three grab samples per truckload (beginning, middle and end of loading). Samples will be transported to the ITEX jobsite and delivered to the onsite QA/QC Technician for testing and verification of proper blending.

Additive Delivery and Injection

Once the blended product leaves the blending plant, significant QA/QC procedures still remain. Properly loaded delivery trucks will be required to obtain an independent certified weight from a location designated by ITEX. This certified weight ticket must be presented to the designated on-site ITEX QA/QC Technician in conjunction with the blending plant weight ticket and ITEX blending plant Technician approval documentation. All paperwork must be presented to designated QC/QA personnel prior to entrance onto jobsite. Upon receipt of required documentation, additional QA/QC procedures will be followed by the ITEX QA/QC Technician. His responsibilities will include:

- 1) Verify the approval documentation from the blending site technician. Failure to provide approval documents and weight tickets will cause rejection of the load.
- 2) A comparison of the blending plant weight ticket and the independent scale weight ticket will be made to verify correlation of weights. Failure of weights to correlate will cause rejection of the load. The ITEX Project Manager should be notified immediately to investigate the source of the discrepancy and remedy the problem.
- 3) In addition to the required paperwork, the on-site QA/QC Technician should receive the grab samples taken during the truck loading process. Prior to unloading the truck, these blended product samples will be tested to verify quality of the blend. Alkalinity tests will be run and the results compared to previously established expected alkalinity. Any significant variance between the actual and expected results will be cause for rejection of the load of blended product. The Project Manager should be notified immediately of any testing variations to determine and remedy problems.
- 4) Upon approval of the blended product, the ITEX Treatment Superintendent will be notified that the truck is ready to be offloaded. All approval documents and weight tickets will be forwarded to the QA/QC Technician responsible for monitoring the offloading process.

In conjunction with QA/QC procedures for raw additive material, an ITEX QA/QC Technician will be responsible for the following tasks relative to the offloading process:

- 1) Upon receipt of approval documents and weight tickets, the QA/QC Technician must position the truck and set up and check the load scales to ensure accurate feedback. Upon completion of set up the Technician will give approval to begin offloading process.
- 2) The QA/QC Technician will provide the injection unit operator with a "Daily Treatment Outline" indicating cell location, waste volume and quantity of required additive for the days treatment activities. The operator will use this information during the treatment process. During offloading, the Technician will monitor the truck scales and communicate to the operator offloading progress in one (1) ton increments. More frequent intervals may be used as necessary. All communications will be documented on the "Additive Injection Data Sheet" (see sample documents).
- 3) Empty trucks must return to the certified scale to obtain an empty weigh ticket. The Technician will compare the newest empty weight ticket to the trucks previous weight ticket to verify no major weight discrepancies (fuel gain or loss will be considered).

Untreated Waste Evaluation

In conjunction with the newly modified treatment procedures, an on-site ITEX QA/QC Technician will perform the following tasks to obtain pertinent data for calculating treatment criteria:

- 1) For every batch (approximately 500cy) of pre-mixed material, Keystone/ERM will collect a minimum of four random samples of material per cell. These samples will be mixed to form one composite sample for cell. This composite sample will be tested by ITEX for moisture content and specific gravity. Keystone/ERM will perform alkalinity tests on the same composite sample and provide results to ITEX within four hours of sampling. Location of samples will be directed by ITEX. Batch areas will be delineated by grid identifiers. Approximate location of grids and random samples will be documented.

- 2) In the same batch areas delineated in Item 1 (above), the ITEX QA/QC Technician will assist Keystone or its representative in the probing and determination of depth of waste. Probing will be performed in accordance with Keystone's procedures. Final determination of waste quantity and depth of treatment will be provided by Keystone or its representative. ITEX's QA/QC Technician will provide assistance only. Any procedure deficiencies should be brought to the attention of the QA/QC Manager.
- 3) Upon receipt of the moisture content, specific gravity and alkalinity test results and the Keystone determination of the quantity of waste in a specific batch area and prior to any treatment activities, the ITEX QA/QC Manager, in conjunction with the ITEX Project Manager and the ITEX Director of Science and Technology, will calculate the treatment criteria and additive requirements for specific batch areas. All calculations will be documented on the "Treatment Criteria Worksheet" (see sample documents). Calculations will be submitted to Keystone or its representative for evaluation. Keystone must respond with an approval or disapproval, in a timely fashion, prior to beginning any treatment. Varying opinions will be resolved between Keystone and the ITEX Director of Science and Technology.
- 4) After treatment has been completed, ITEX will collect a minimum of one random sample per cell in a specific batch area. Actual sampling will be performed, whenever possible, by Keystone representatives. This sampling is performed in addition to the sampling/testing performed by Keystone/ERM for independent evaluation. The location of samples will be directed by ITEX. These samples will be taken one day after treatment was completed. Samples will be tested for alkalinity with the ITEX Field Testing equipment. Batch areas, sample locations and results will be documented. Documentation will designate "Pass", "Fail" or "Additional Study Required", based on the established treatment criteria.

Remixed Treated Waste Evaluation

As a result of the pilot test programs, some waste falls outside the acceptable range (alkalinities) and therefore must be remixed for additional treatment. The ITEX QA/QC Manager, in conjunction with the ITEX Project Manager, the ITEX Director of Science and Technology and Keystone will evaluate all areas considered to require additional treatment. The ITEX QA/QC Technicians will be responsible for the following tasks relative to the remixing:

- 1) After completion of the remixing effort, random sampling and testing will be performed by Keystone/ERM to determine alkalinity levels. Sampling procedures will be the same as

those used in initial treatment activities.

- 2) Based on alkalinity levels, a determination of additional treatment will be made in a joint decision from ITEX, Keystone and/or Keystone's representatives. Disagreements on additional treatment criteria will be discussed and resolved. Final determination of treatment criteria will be made by Keystone and/or it's representative.
- 3) If additional treatment is required, all QA/QC procedures previously outlined will be implemented and documented as described.

SECTION III Testing Procedures

Standard procedures have been developed for the field testing of all major parameters influencing the stabilization/solidification process. Section III divides the testing effort into the following three areas:

- 1) Waste Material Testing
- 2) Additive Material Testing
- 3) Treated Material Testing

The following will outline the standard procedures to be followed for all required testing.

Waste Material Testing

Waste material will be sampled following the procedures and frequencies outlined in Section II. The sampled material will be tested to determine the moisture content and the percentage of solids. Testing will be accomplished following the procedures outlined in ASTM D-2216-80, Standard Method for Laboratory Determination of Moisture Content and Specific Gravity. Standard documentation of testing results will be provided to ERM within two days from the completion of testing.

Additive Material Testing

Raw additive materials and blended additive materials will be sampled following the procedures and frequencies outlined in Section II. Alkalinity testing on the blended material and individual additives. The following testing procedure was derived from the Standard Operating Procedure for Non-Aqueous Alkalinity,

as provided by Daily Analytical Laboratories.

Standard Procedure for Additive Material Alkalinity Test

- STEP I • Calibrate pH meter with standard buffer solution
- STEP II • Weight sample/record weight
Note: Sample should weigh between 2-3 grams
• Add 150 ml of 0.5 N Hydrochloric Acid (HCL) to sample
• Swirl until sample is dissolved.
- STEP III • Place sample on burner. Heat to boiling, and boil for approximately one minute.
• Let sample cool and solids settle out.
- STEP IV • Titrate solution to pH 7.0 with 0.5 N Sodium Hydroxide (NaOH)
Note: Record beginning measure of NaOH in Titration tube. Record ending measure in Titration tube.
- STEP V • Calculate Alkalinity

$$[(N_{HCl}) (V_{HCl}) - (N_{NaOH}) (V_{NaOH})] \times 50,000$$

$$\text{Sample Weight} = \text{Mg CCO}_3/\text{Kg}$$

Standard documentation of testing results will be provided to ERM within two days from the completion of testing.

Treated Material Testing

Treated materials will be sampled following the procedures and frequencies outlined in Section II. Alkalinity testing of the treated materials will be conducted to determine the quality of the remediation effort. The following testing procedure was derived from the Standard Operating Procedure for Non-aqueous Alkalinity, as provided by Daily Analytical Laboratories.

Standard Procedure for Treated Material Alkalinity Test

- STEP I • Calibrate pH meter with standard buffer solution
- STEP II • Weight sample/record weight
Note: Sample should weigh between 2-3 grams

- Add 40 ml of 0.5 N Hydrochloric Acid (HCl) to sample

STEP III
 - Place sample on burner. Heat to boiling, and boil for approximately one minute.
 - Let sample cool and solids settle out.
 - Add 20 ml of distilled water.

STEP IV
 - Titrate solution to pH 7.0 with 0.5 N Sodium Hydroxide (NaOH)
Note: Record beginning measure of NaOH in Titration tube. Record ending measure in Titration tube.

STEP V
 - Calculate Alkalinity

$$[(N_{HCl}) (V_{HCl}) - (N_{NaOH}) (V_{NaOH})] \times 50,000$$

Sample Weight = Mg CCO₃/Kg

All testing information and calculations will be provided to ERM upon request.

SECTION IV Document Control

All document control will be the responsibility of the ITEX QA/QC Manager. These responsibilities will include:

- 1) Complete and accurate data collection
- 2) Organized filing of all documents for easy reference
- 3) Document distribution to specified personnel in a timely manner.

In accordance with client requirements, the following table summarizes the important documents to be prepared and indicates the distribution network. Time frames for transmittal of these documents have been established to prevent delays and oversights.

SECTION V Sample Documentation

The following documents are samples of the format to be used for recording the QA/QC data to be collected per this plan. All documents will be correlated and filed in accordance with QA/QC Managers document control procedures.



ADDITIVE DELIVERY DATA SHEET

QA/QC TECH _____ DATE _____
VERIFICATION OF BLENDING APPROVAL DOCUMENTS _____
VERIFICATION OF WEIGHT TICKET CORRELATION _____
CERTIFIED SCALE TICKET NUMBER _____
ACKNOWLEDGEMENT OF RECEIPT OF BLENDED ADDITIVE SAMPLES _____

SAMPLE TESTING DATA

BLENDING EVALUATION:

PASS _____
FAIL

COMMENTS:

PREPARED BY



RAW ADDITIVE SAMPLING DATA SHEET

DATE SAMPLE TAKEN: _____ TIME: _____

TYPE OF ADDITIVE: PORTLAND (PI) CaO

DELIVERY TICKET NO. _____

MATERIAL SUPPLIER _____

SAMPLE ID NO. _____



ADDITIVE BLENDING DATA SHEET

DATE **QA/QC TECH** **PLANT OPER** _____

MIXING PLANT TICKET NO. _____ **TRAILER ID NO.** _____

NOTES: _____

LOADING PROCESS APPROVAL



ADDITIVE INJECTION DATA SHEET

DATE _____ QA/QC TECH _____
MIXING PLANT TICKET NO _____ CERTIFIED SCALE TICKET NO _____

NOTES: _____

INJECTION PROCESS APPROVAL

UNTREATED WASTE EVALUATION DATA SHEET

QA/QC TECH _____ DATE _____

DATE OF PREMIXING _____

PREMIXING SAMPLE LOCATIONS

SAMPLE TESTING DATA

DATE	SAMPLE LOCATION	SAMPLE ID No.	VOLUME (CY)*	MOISTURE CONTENT	ALKALINITY

*PROVIDED BY KEYSTONE (OR REPRESENTATIVES)

TOTAL VOLUME OF BATCH AREA _____

RECOMMENDED ADDITIVE % _____

(CALCULATION WORKSHEET ATTACHED)

RECOMMENDED VOLUME OF ADDITIVE TO INJECT _____

(CALCULATION WORKSHEET ATTACHED)

ITEX PREPARED BY _____

KEYSTONE APPROVAL _____



TREATMENT CRITERIA WORKSHEET

PREPARED BY



TREATED WASTE EVALUATION DATA SHEET

QA/QC TECH

DATE OF TREATMENT

TREATED SAMPLE LOCATIONS

SAMPLE TESTING DATA

TREATMENT EVALUATION (BASED ON ESTABLISHED ALKALINITY RANGES):

PASS

FAIL

ADD'L STUDY REQUIRED

PREPARED BY

ALKALINITY CALCULATION WORKSHEET

DATE _____ **OF** _____

COMMENTS:

ITEX ENTERPRISES, INC. DALLAS, TEXAS

RETENTION RESERVOIR REMEDIATION QA/QC DATA

TYPE OF DATA	FREQUENCY OF SAMPLING	FREQUENCY OF TESTING	TIME PERIOD FOR RESULTS	TRANSMITTAL TO KEYSTONE/ERM DEADLINES	KEYSTONE/ERM RESPONSE DEADLINE
RAW ADDITIVE ALKALINITY	1 PER 5 LOADS AS NECESSARY		1 HOUR	NONE - DATA AVAILABLE ON REQUEST	-----
LOADING PROCESS MONITORING	ONGOING	ONGOING	IMMEDIATE	NONE - DATA AVAILABLE ON REQUEST	-----
BLENDED ADDITIVE ALKALINITY	3 - 5 PER	EVERY LOAD	1 HOUR	2 DAYS AFTER TREATMENT (DATA AVAILABLE IMMEDIATELY IF DESIRED)	2 DAYS FROM RECEIPT
FIELD SCALE READINGS	-----	1 TON OFFLOAD INCREMENT	IMMEDIATE	2 DAYS AFTER TREATMENT	-----
CERTIFIED SCALE WEIGHT (LOADED)	-----	EVERY LOAD	IMMEDIATE	2 DAYS AFTER TREATMENT	-----
CERTIFIED SCALE WEIGHT (EMPTY)	-----	EVERY LOAD	IMMEDIATE	2 DAYS AFTER TREATMENT	-----
SPECIFIC GRAVITY ALKALINITY MOISTURE CONTENT PRE-MIXED WASTE	MIN. 4 RANDOM EACH BATCH PER CELL (1 AREA COMPOSITE)		2 DAYS	1 DAY PRIOR TO TREATMENT	WITHIN 8 HOURS
RECOMMENDED QTY OF ADDITIVE INJECTION	EACH BATCH AREA	EACH BATCH AREA	1 DAY	1 DAY PRIOR TO TREATMENT	WITHIN 8 HOURS
TREATMENT CALCULATIONS	EACH BATCH AREA	EACH BATCH AREA	1 DAY	1 DAY PRIOR TO TREATMENT	WITHIN 8 HOURS

RETENTION RESORVOIR REMEDIATION QA/QC DATA PAGE 2

	DAILY OPERATING LOG	DAILY	THURSDAY OF PRECEEDING WEEK	FRIDAY OF PRECEEDING WEEK
DAILY OPERATING LOG	-----	-----	-----	-----
WEEKLY WORK PLAN	-----	-----	-----	-----

APPENDIX D

STATISTICAL PLOT OF ALKALINITY DATA DURING ACCEPTABLE TREATMENT

Figure 1
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of
 Cells I9, J9, K9, and L9: Treated September 22, 1992

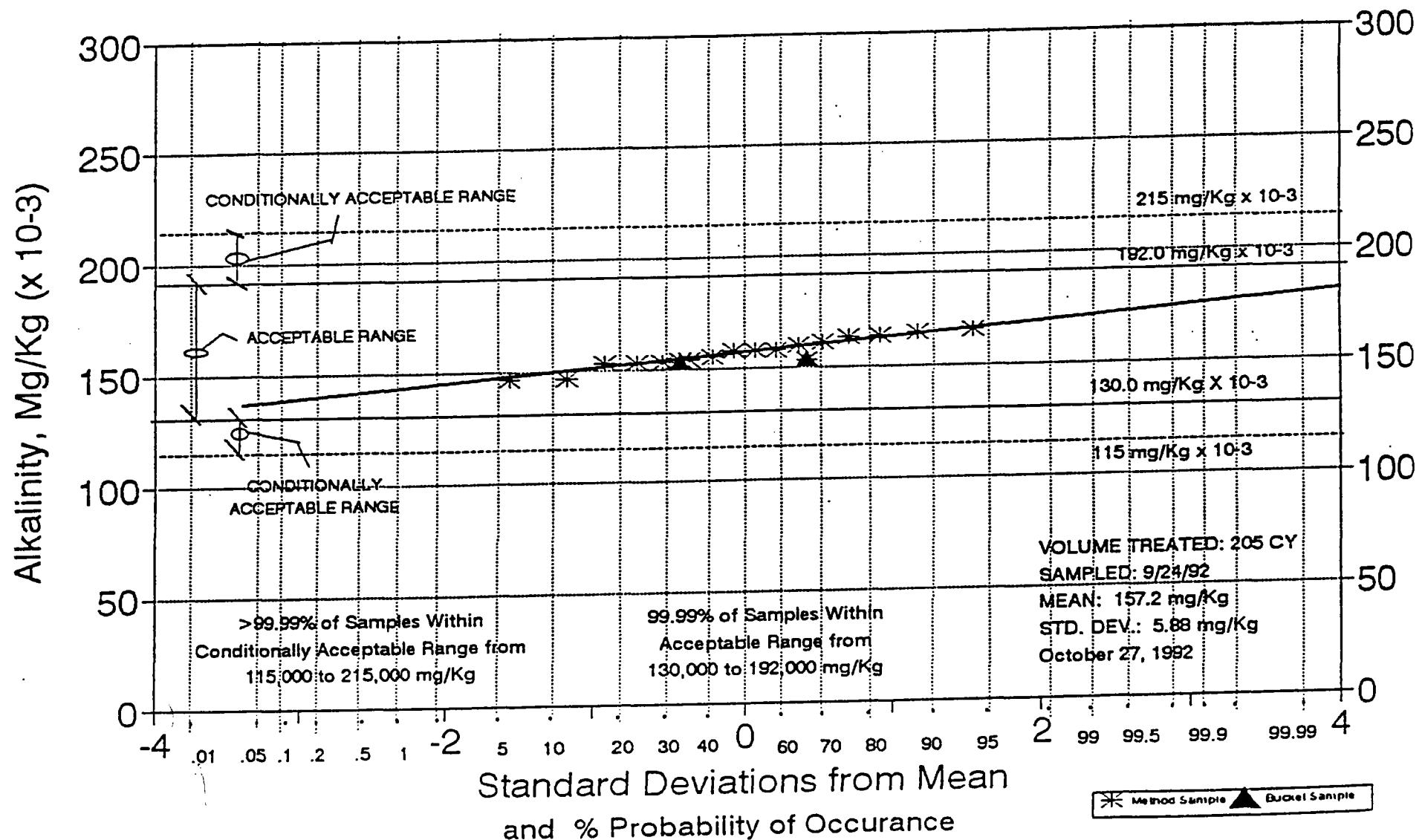


Figure 2
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of
 Cells G11, H11, I11, J11, K11, J12, and K12: Treated September 23, 1992

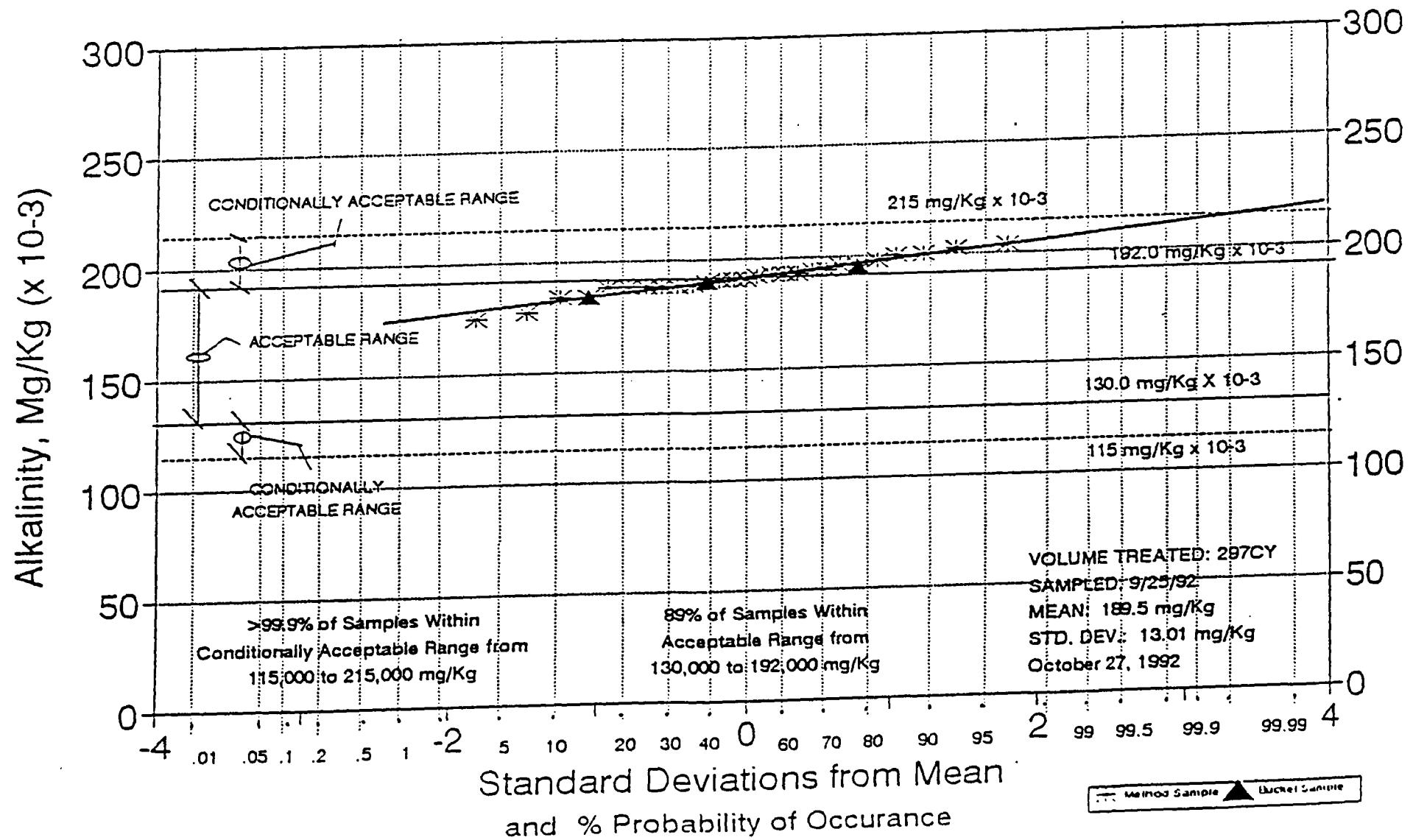


Figure 3
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of
 Cells I14, H15, I15, H16, I16, J16, K16, I17, J17, and K17 : Treated October 2, 1992
 J15, L17, M17, N17, O17, and O18: Treated October 5, 1992

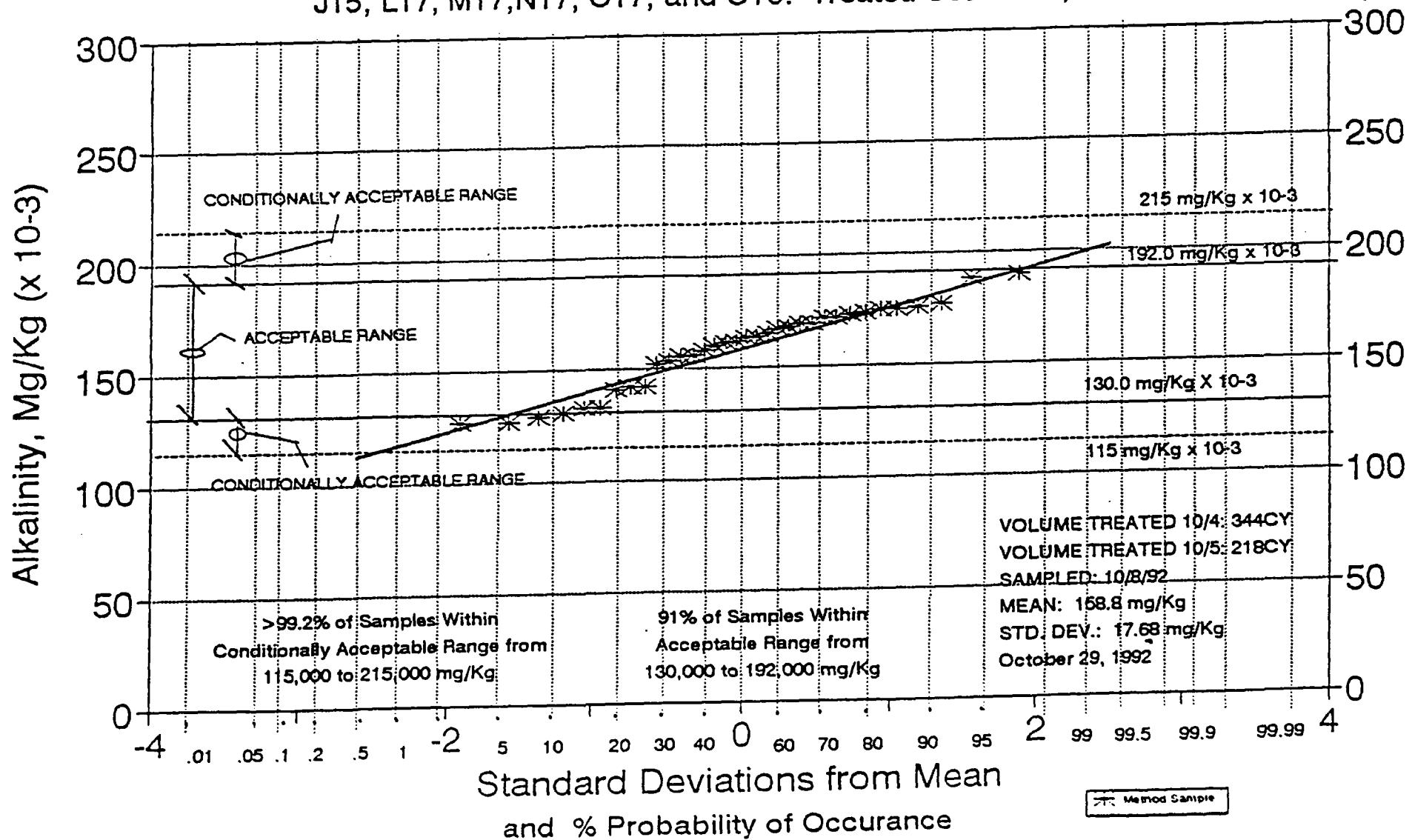


Figure 4

KEYSTONE STEEL & WIRE
Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of
Cells Q14, R14, Q15, R15, Q16, and R16: Treated October 5, 1992
Cells Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, R13, K15, L15, M15, N15, O15,
and P15: Treated October 6, 1992

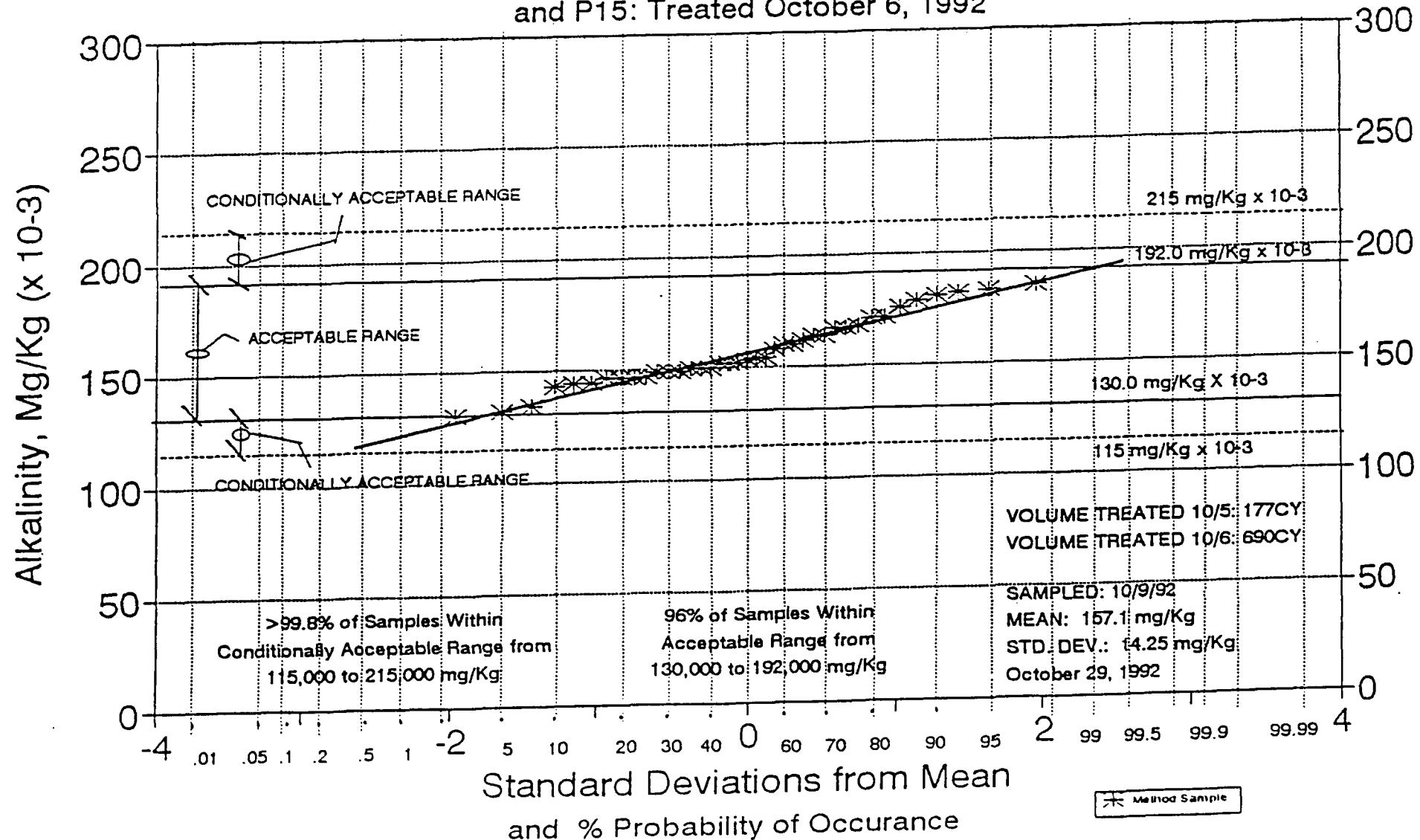


Figure 5

KEYSTONE STEEL & WIRE
Retention Reservoir Remediation

Variability in Alkalinity Subsequent to Treatment of
Cells R28, R29, Q30, R30, Q31, and R31: October 13, 1992

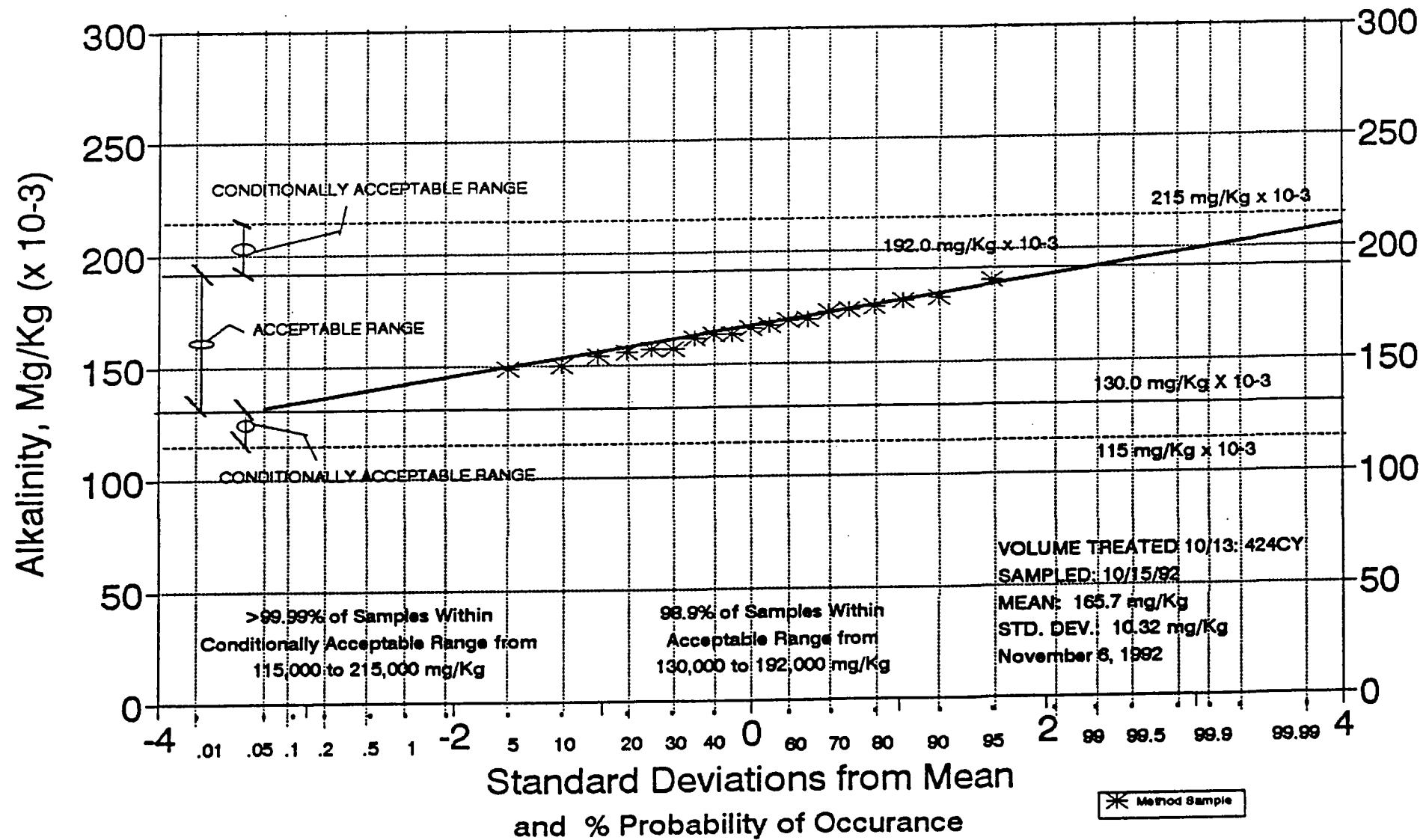


Figure 6
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of
 Cells L30 and M30: October 12, 1992
 Cells N30 and N31: October 9, 1992
 Cells O-30, P-30, O-31, and P-31: October 8, 1992

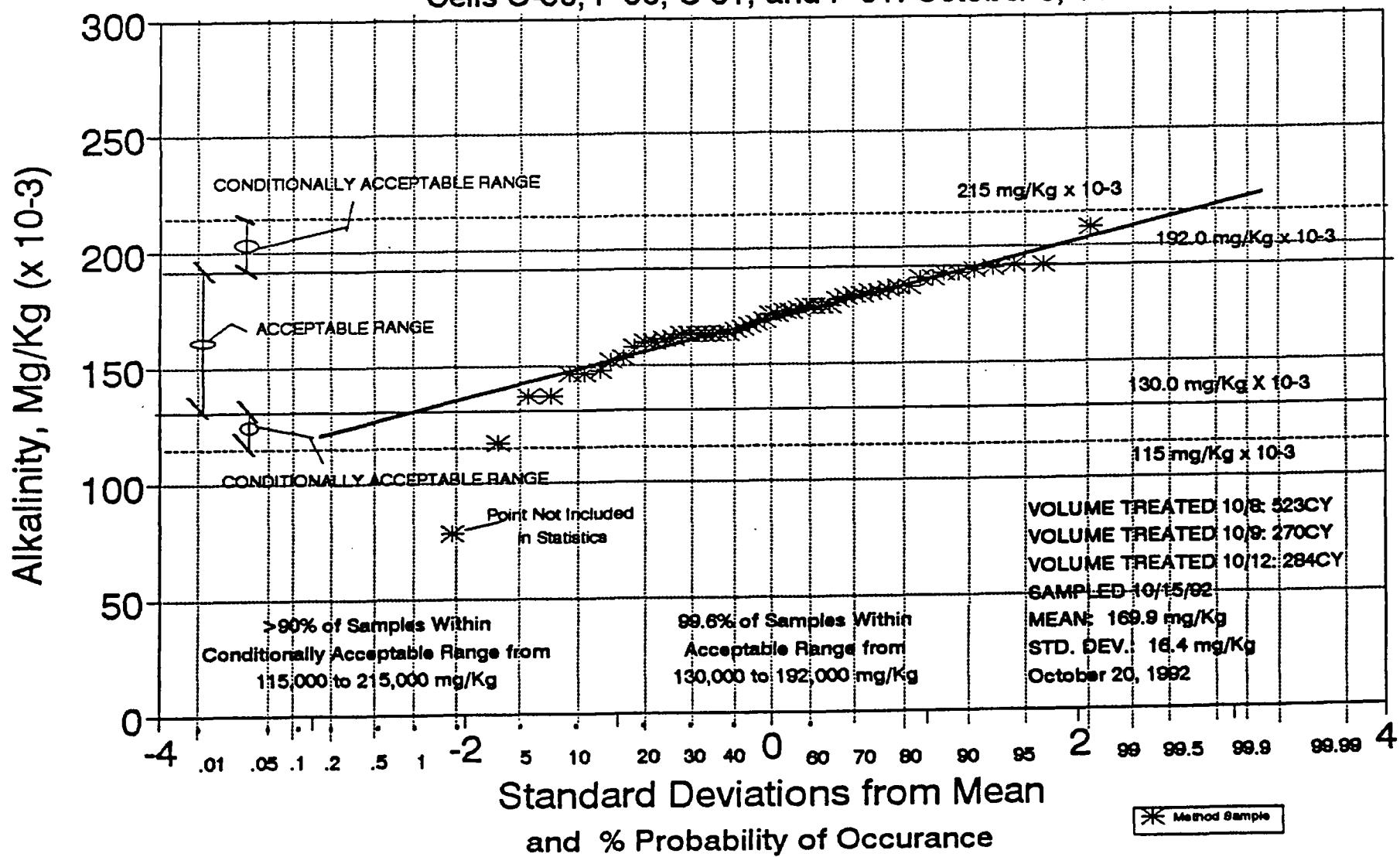


Figure 7

KEYSTONE STEEL & WIRE
Retention Reservoir Remediation

Variability in Alkalinity Subsequent to Treatment of
Cells H29, I29, J29, K29, J30, and K30: October 15, 1992
Cells L30 and M30: October 12, 1992

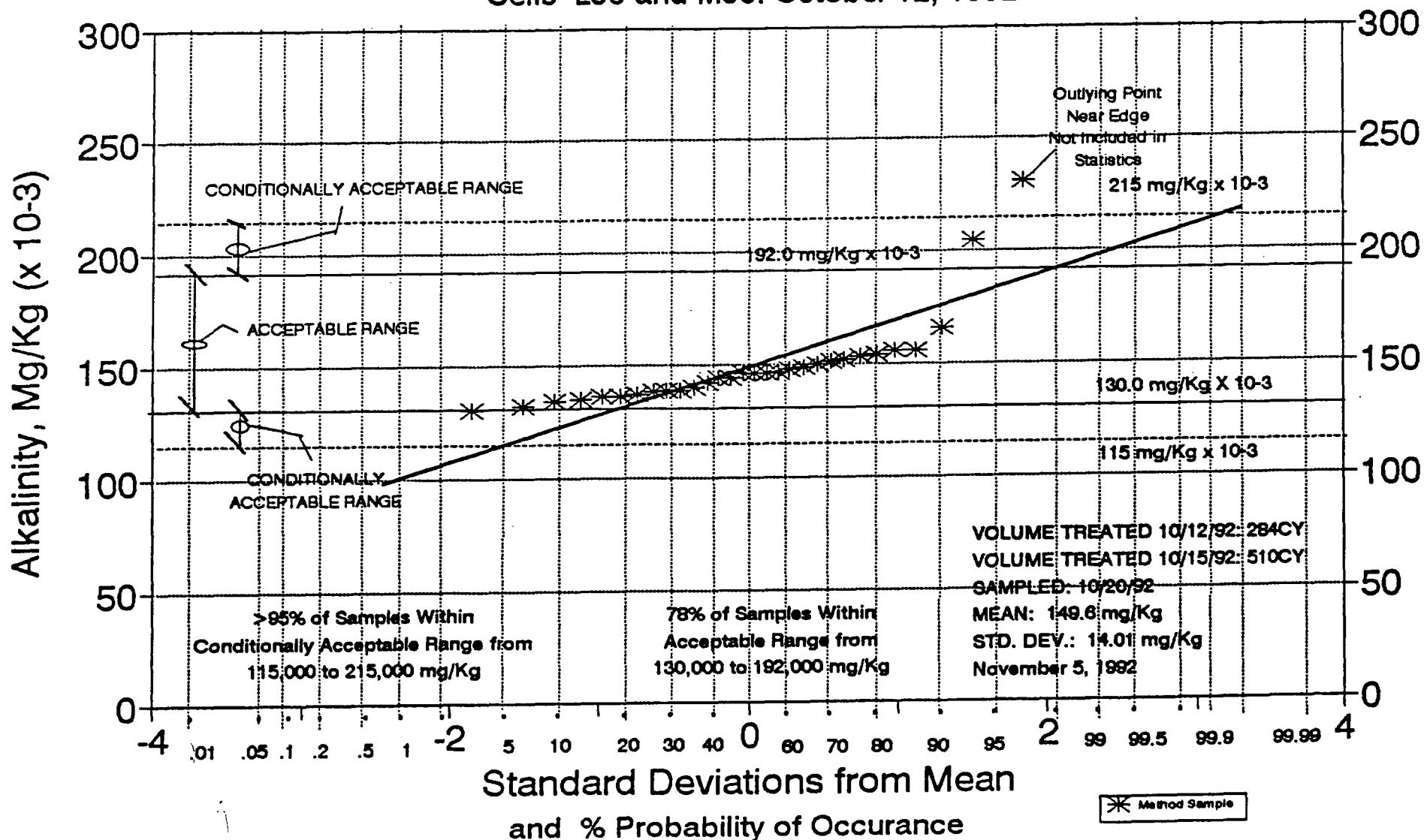


Figure 8

KEYSTONE STEEL & WIRE
Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of

Cells F23, G23, F24, G24, F25, G25, and F26: October 13, 1992

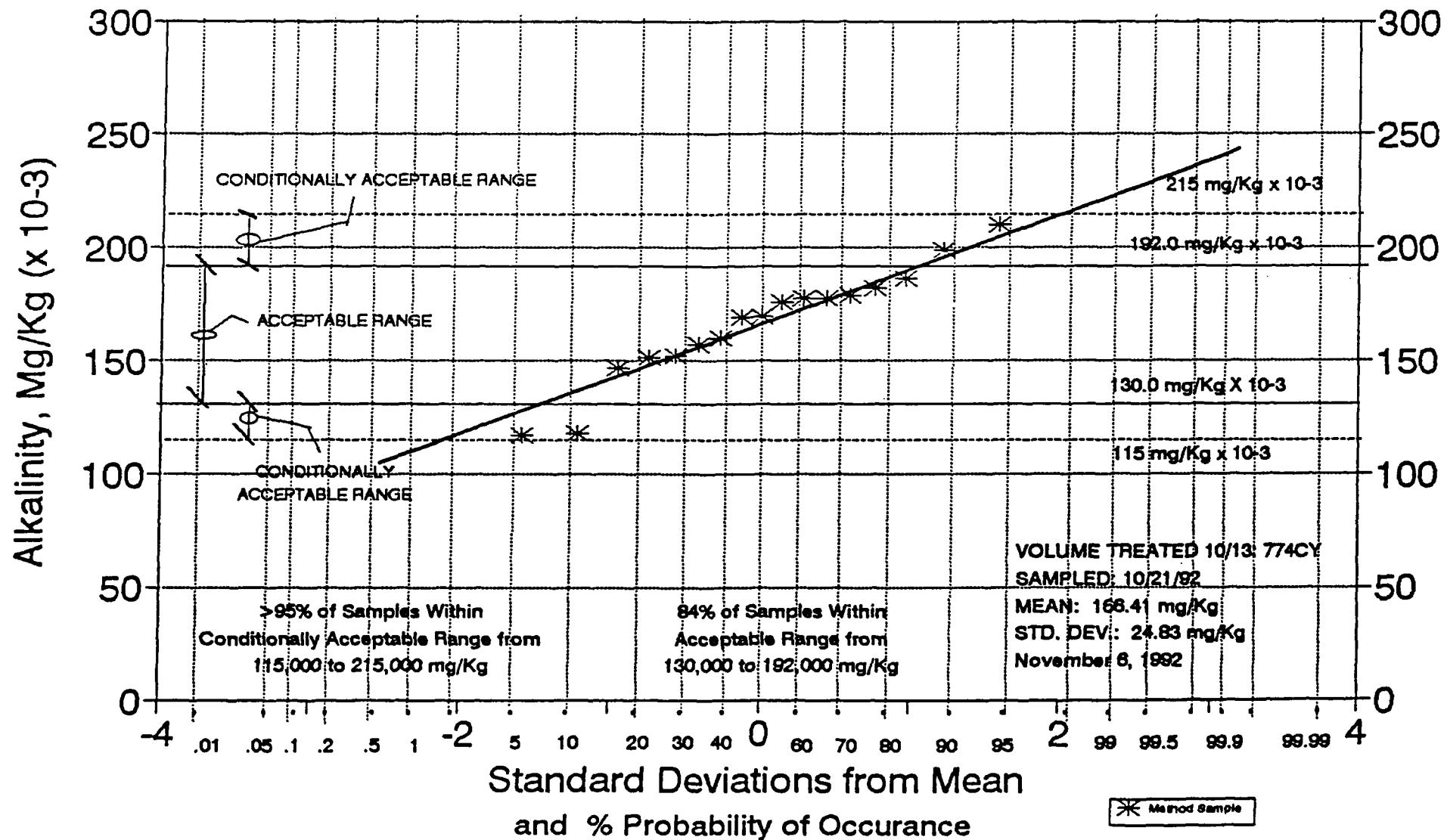


Figure 9

KEYSTONE STEEL & WIRE
Retention Reservoir Remediation

Variability in Alkalinity Subsequent to Treatment of

Cells E29, F29, and G29: October 16, 1992

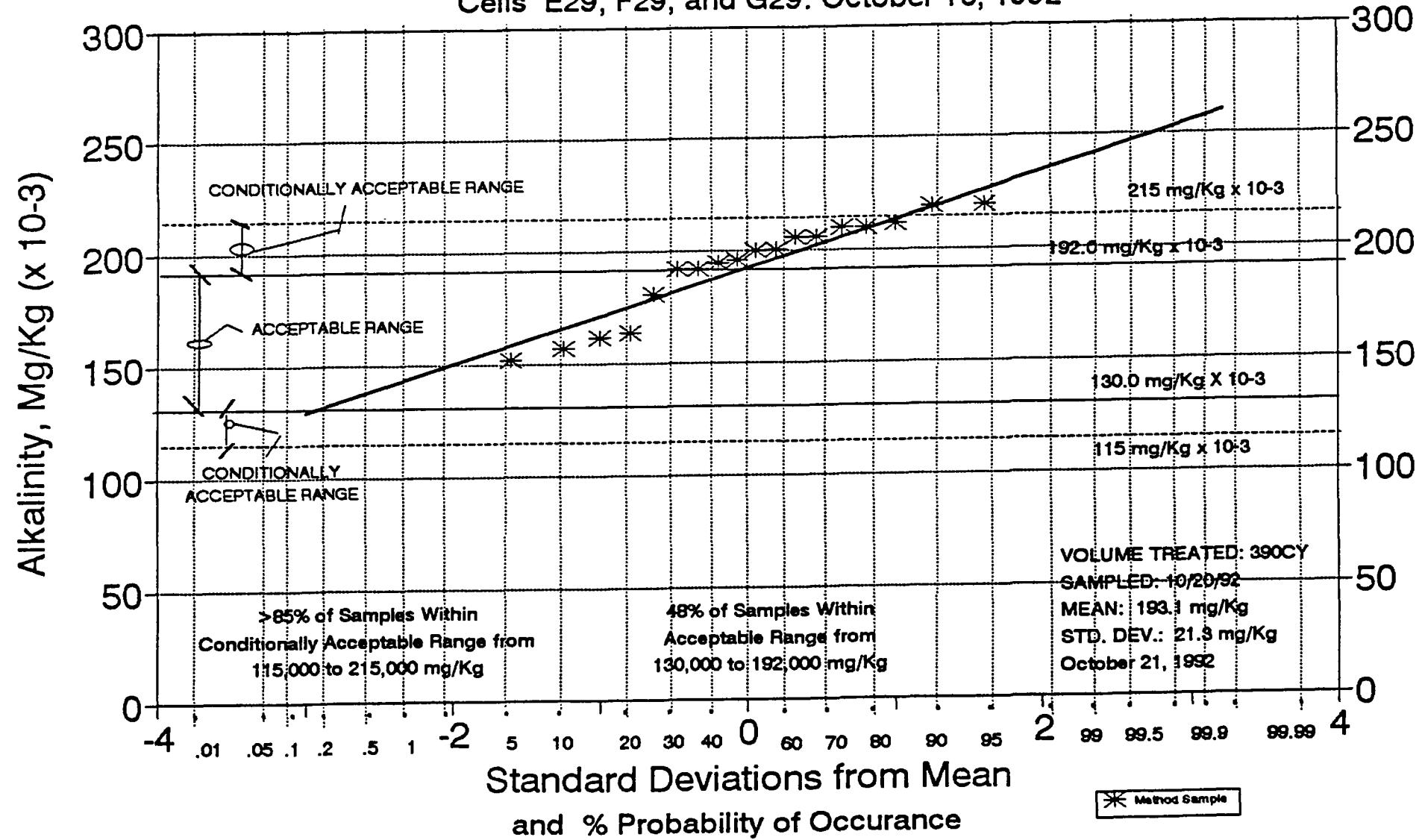


Figure 10
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of
 Cells L29, M29, and N29: October 20, 1992

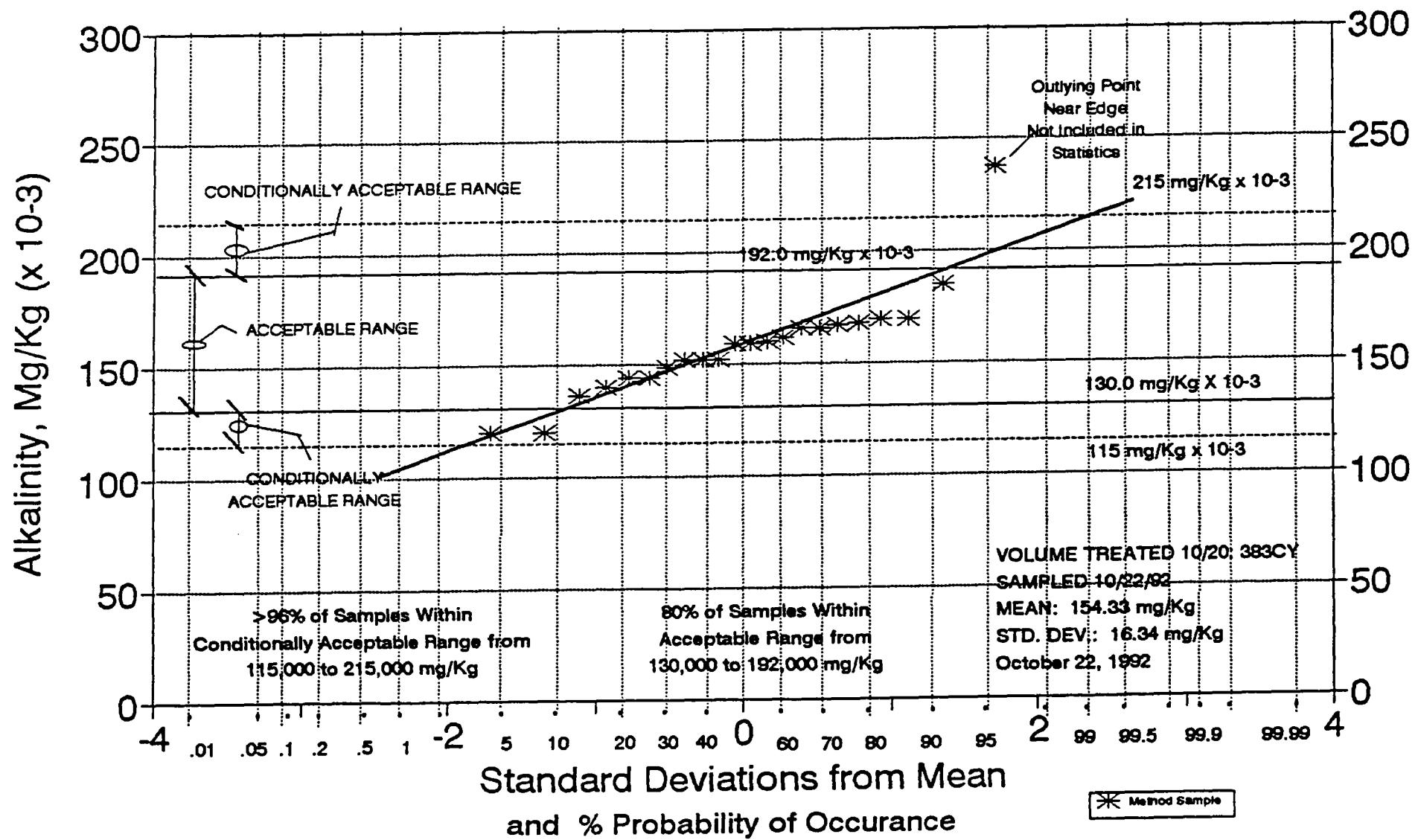


Figure 11
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of
 Cells H28, and I28: October 21, 1992
 Cells K30, K31, L31, and M31: October 22, 1992

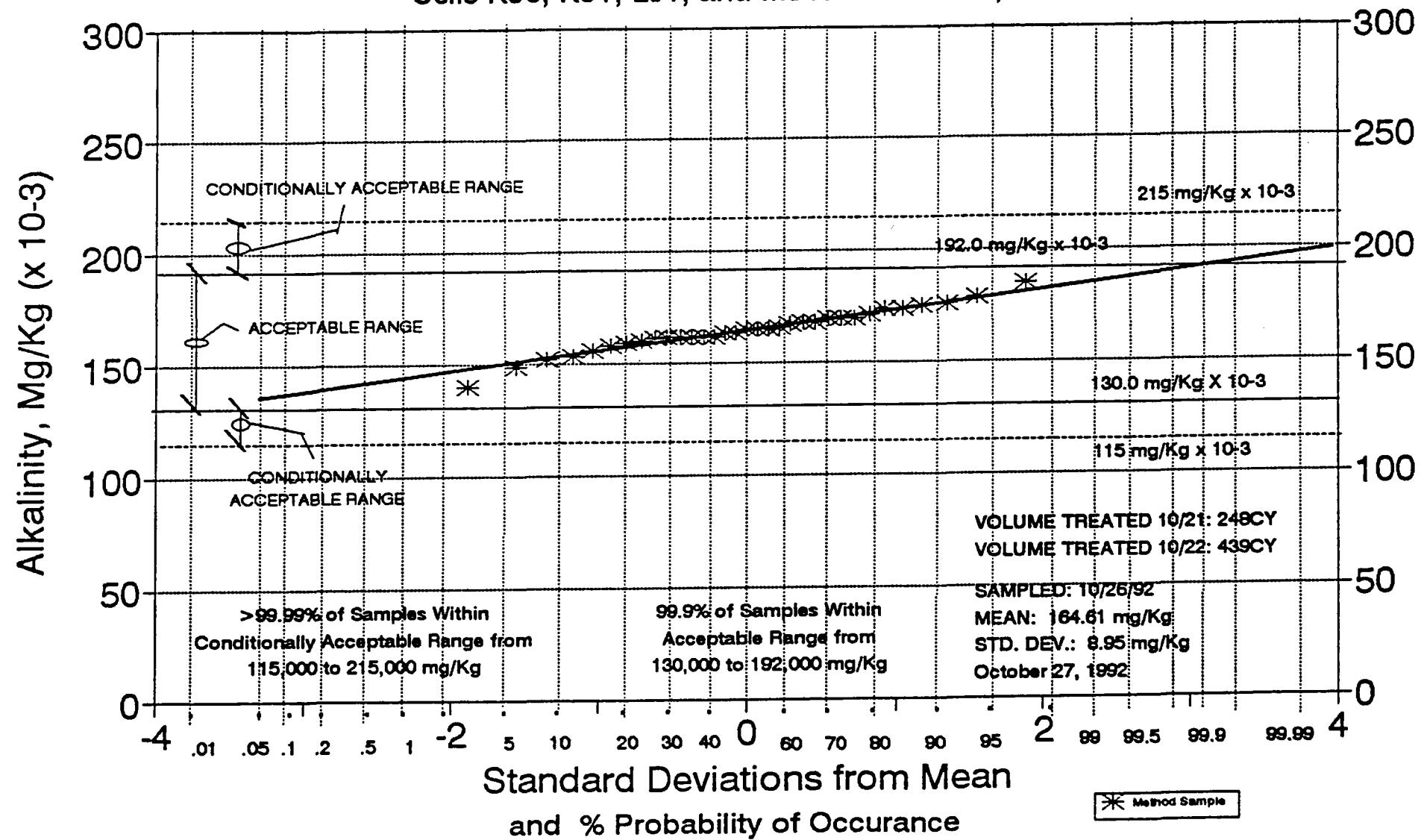


Figure 12
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of

Cells H23, and I23: October 21, 1992

Cells H24, and I24: October 22, 1992

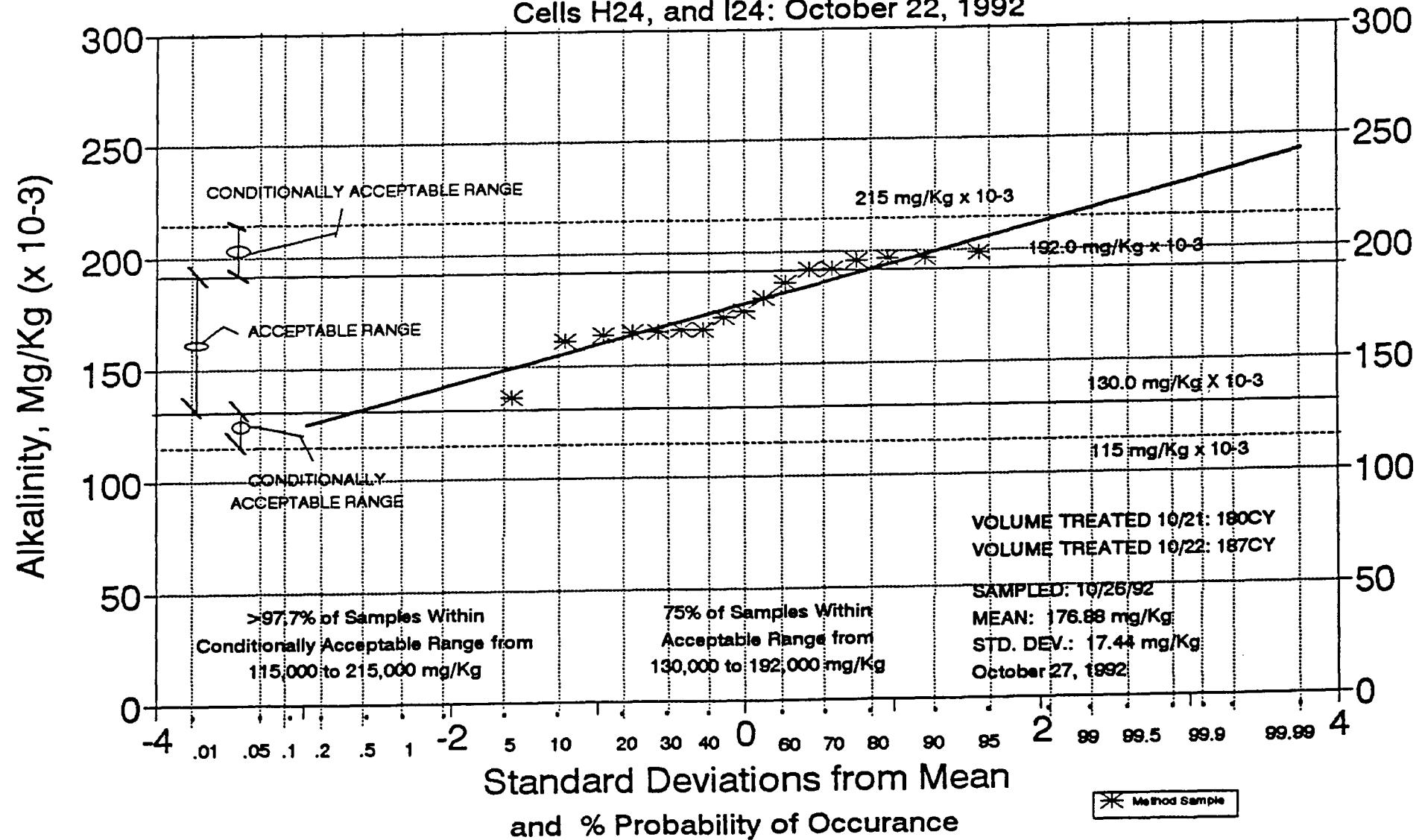


Figure 13

KEYSTONE STEEL & WIRE
Retention Reservoir Remediation

Variability in Alkalinity Subsequent to Treatment of
Cells K23, L23, K24, and L24: October 23, 1992

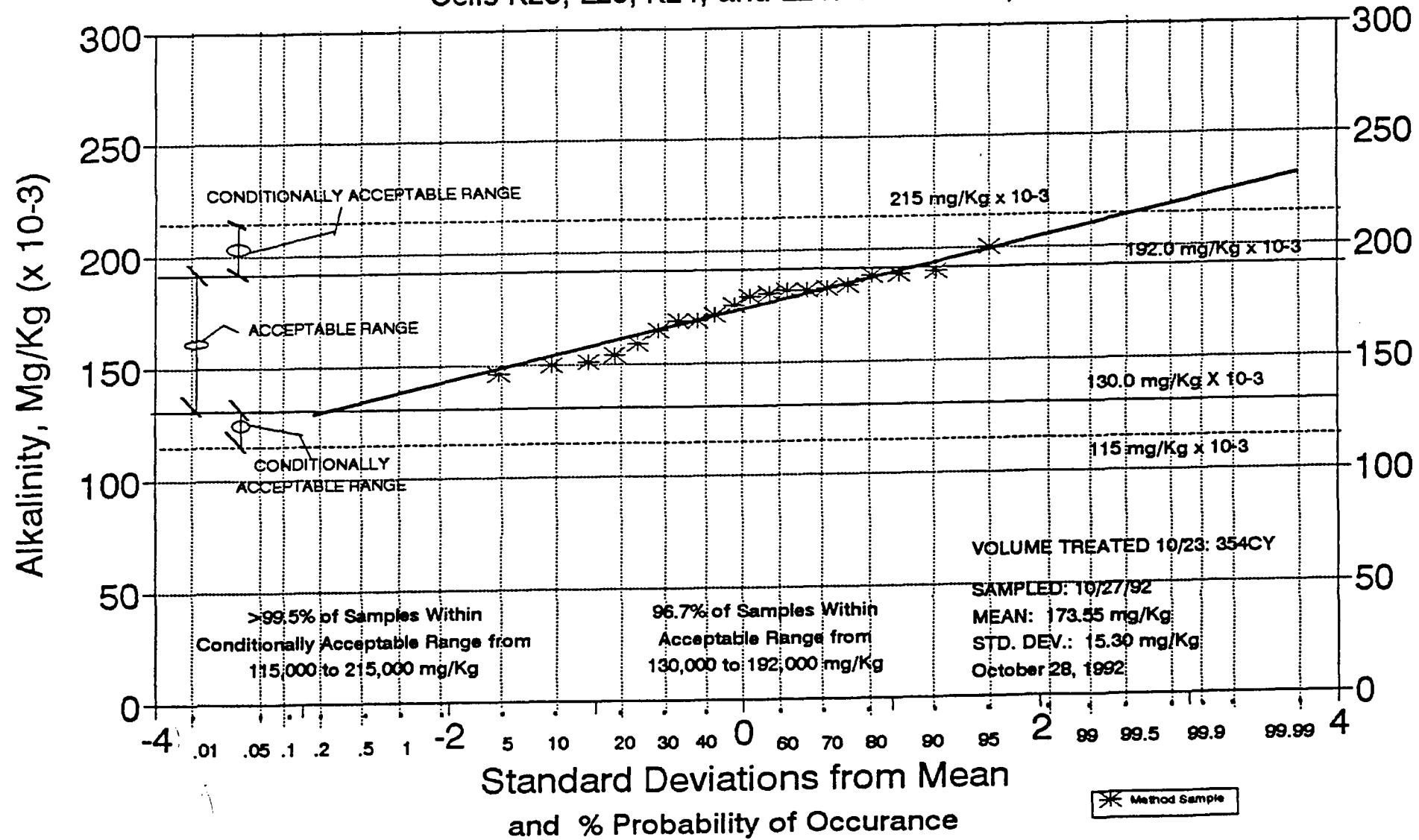


Figure 14

KEYSTONE STEEL & WIRE
Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of
Cells F23, G23, F24, G24, F25, G25, and F26: Treated October 13, 1992
Cells G26, F27, and G27: Treated October 19, 1992

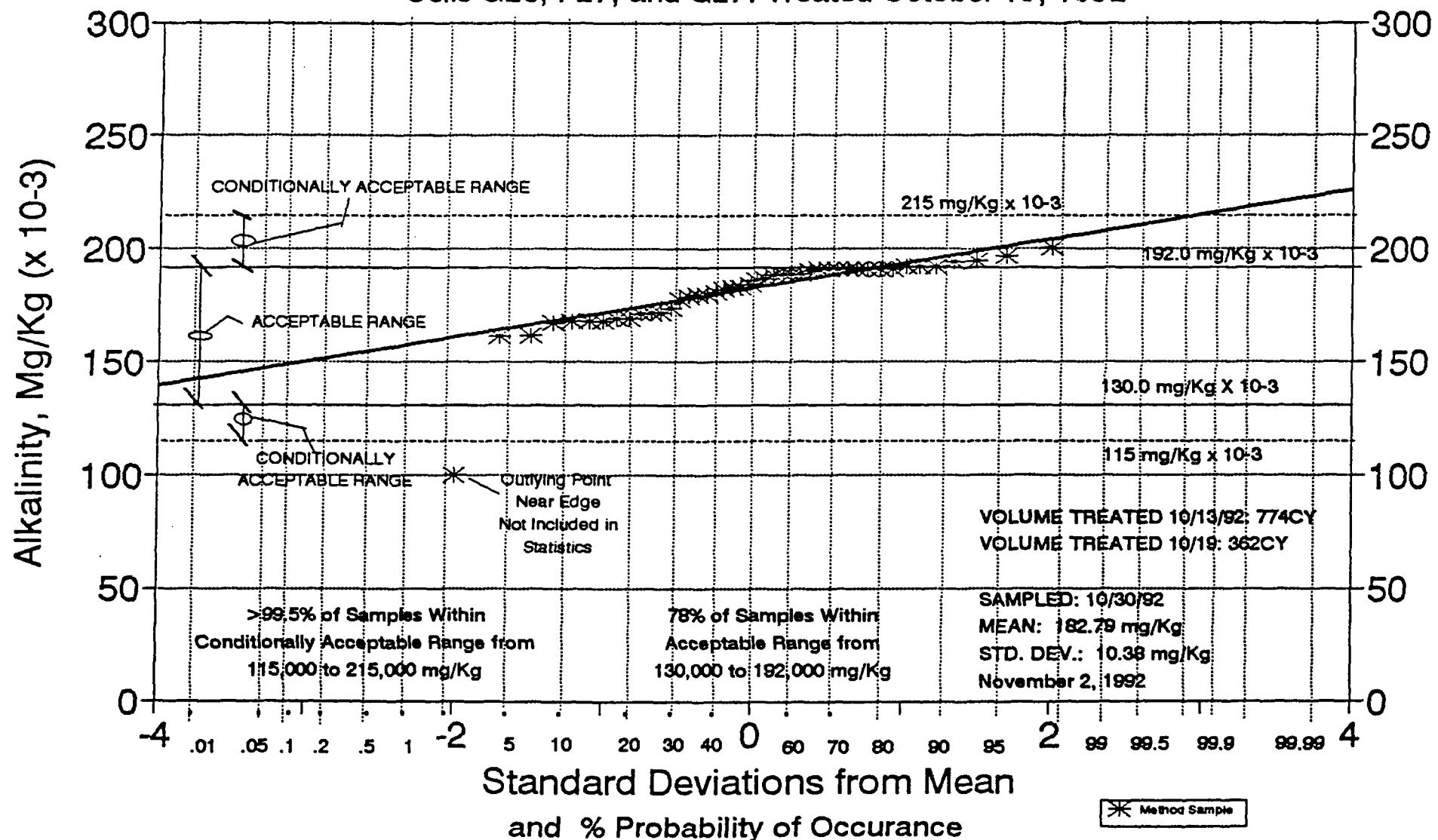


Figure 15
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of
 Cells F-28, G-28, E-29, F-29, and G-29: October 16, 1992
 Cells F27 and G27: October 19, 1992
 Cells H30 and I30: October 26, 1992

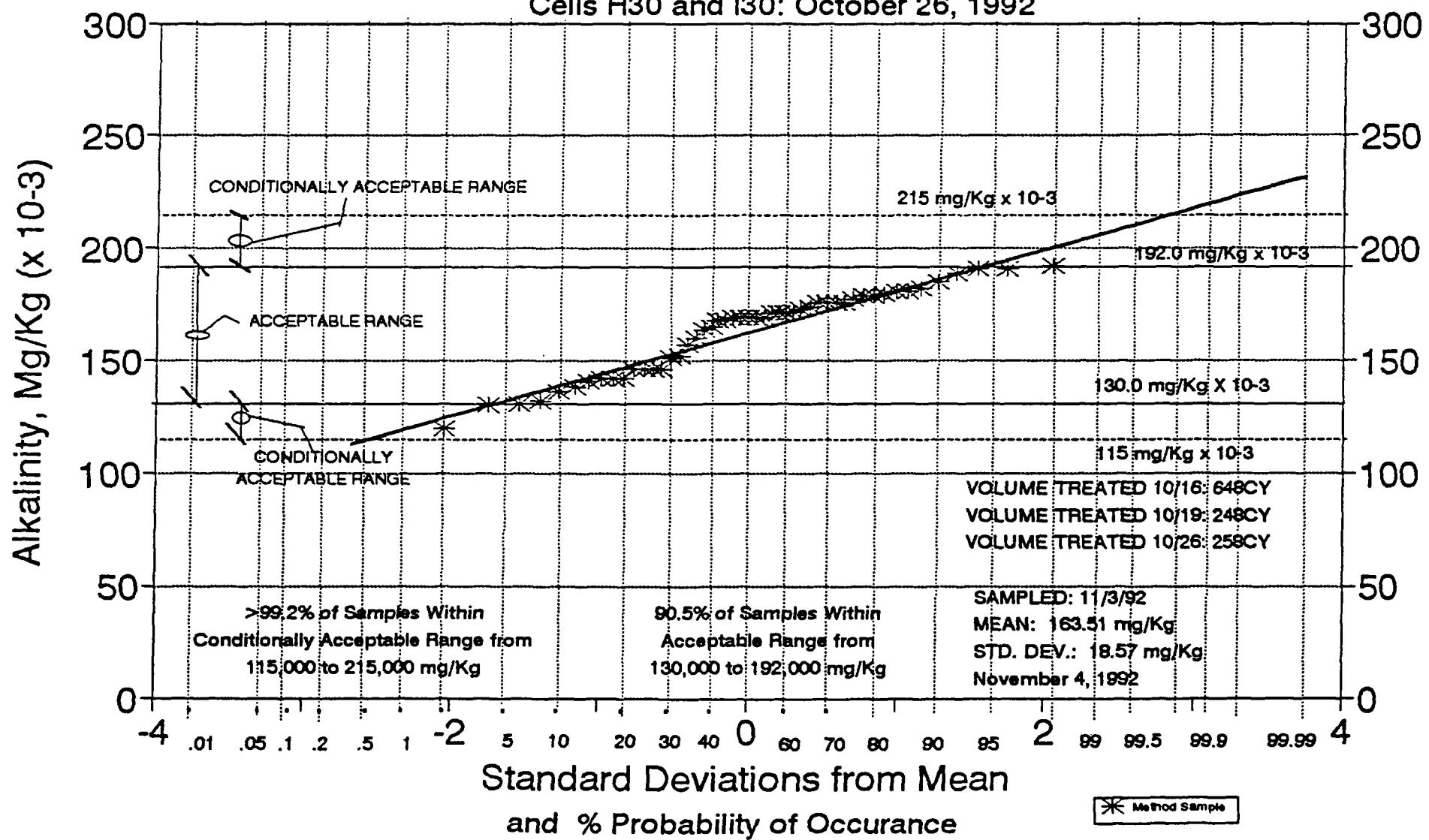


Figure 16

KEYSTONE STEEL & WIRE
Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of
Cells M-23, N-23, M24, and N-24: October 28, 1992

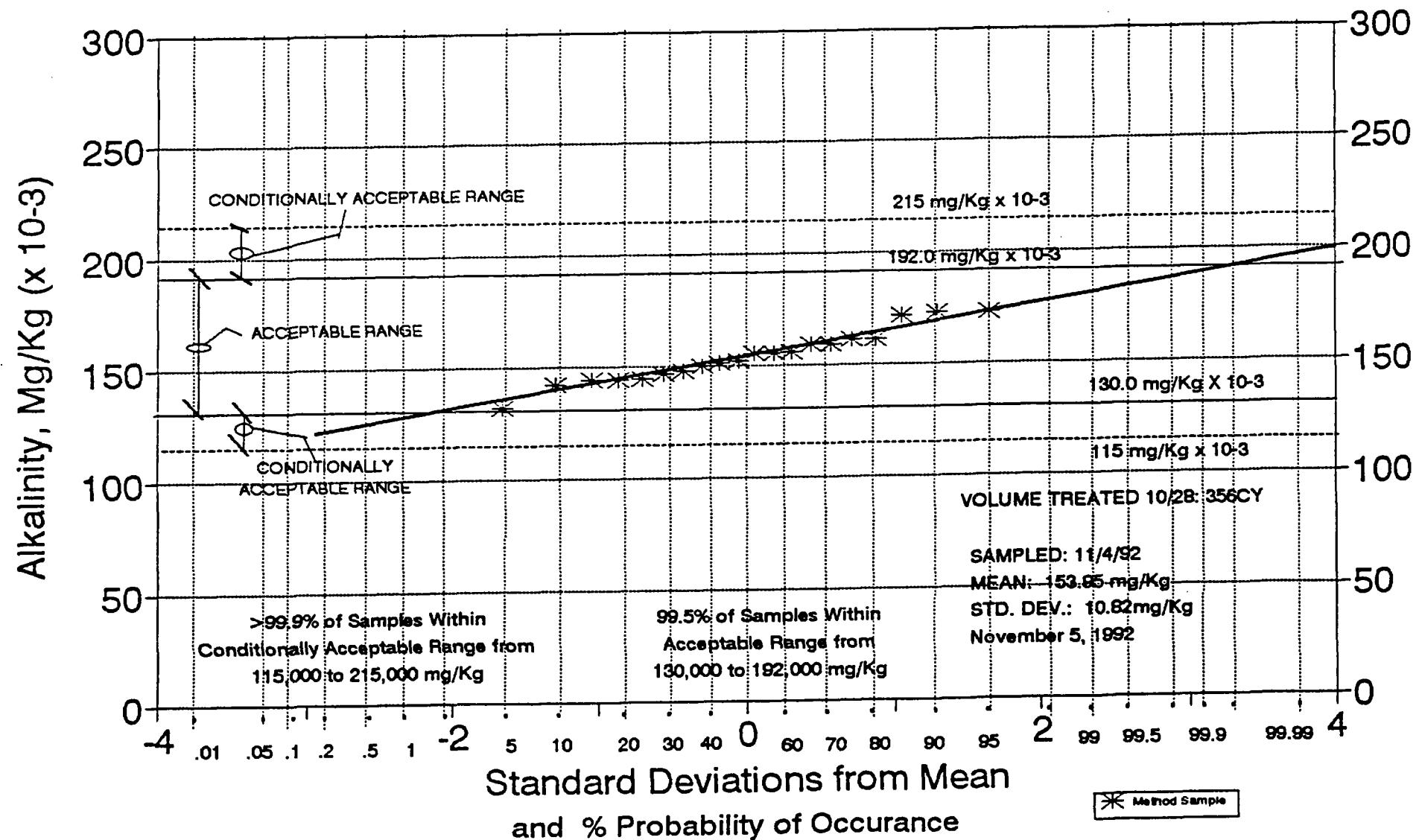


Figure 17
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of
 Cells P-19 and P-20: November 2, 1992 Cell P-22:November 3, 1992
 Cell P-24: October 29, 1992

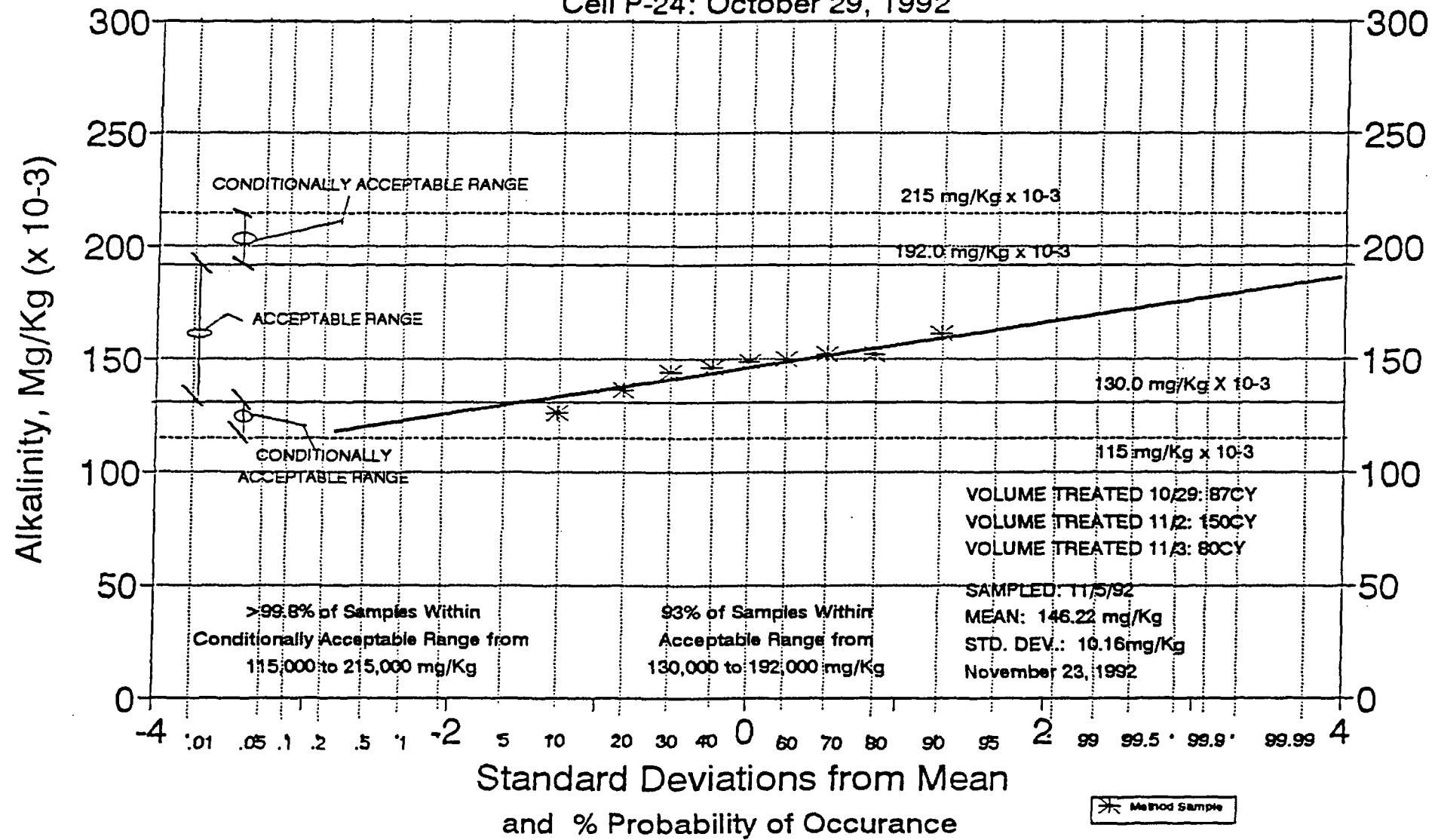


Figure 18

KEYSTONE STEEL & WIRE
Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of
Cell D-27, D-28, and D-29: October 31, 1992

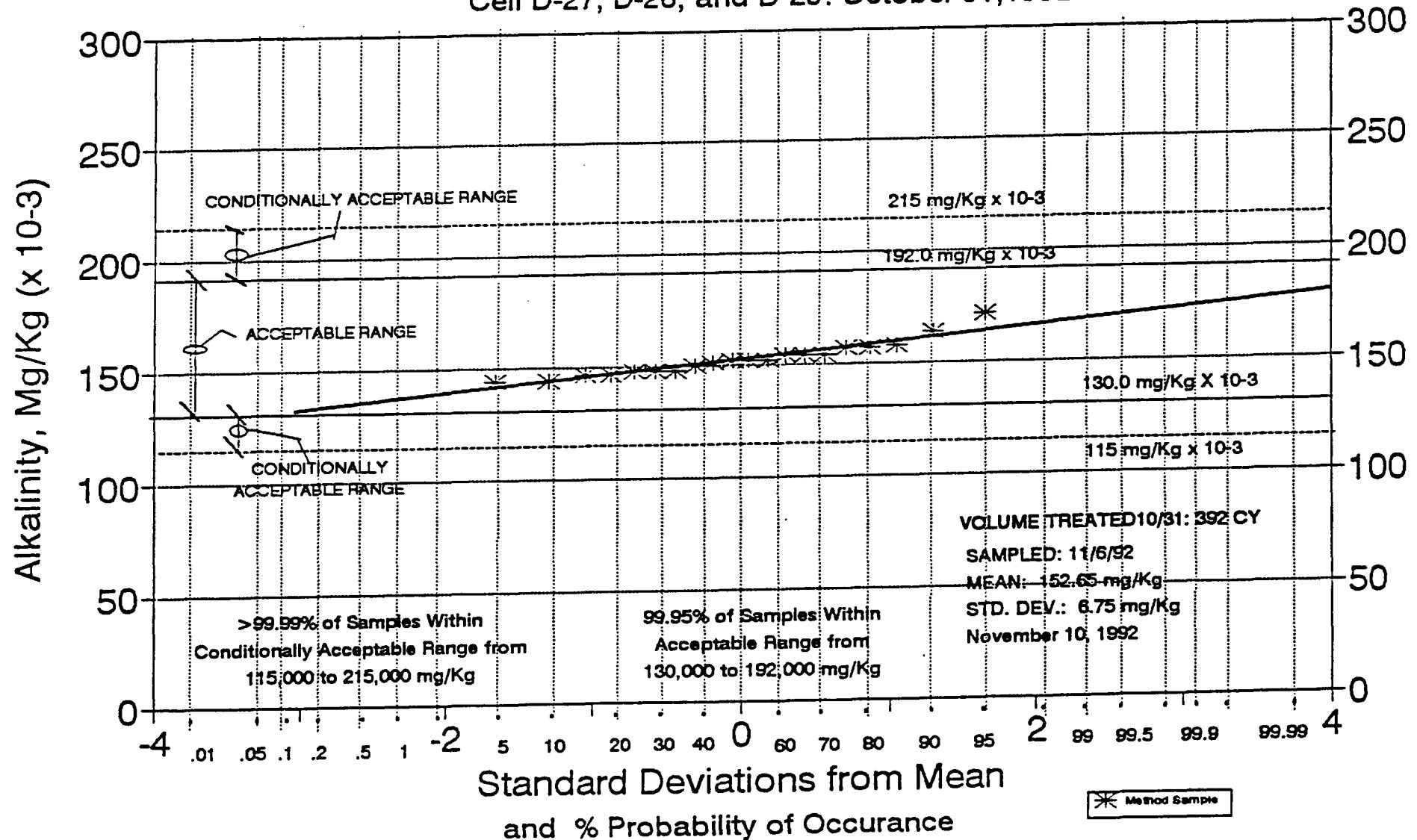


Figure 19

KEYSTONE STEEL & WIRE
Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of
Cells D23, D24, D25, D26, E23, E24, E25, E26, E27, and E-28: October 31, 1992
Cell E29: October 16, 1992

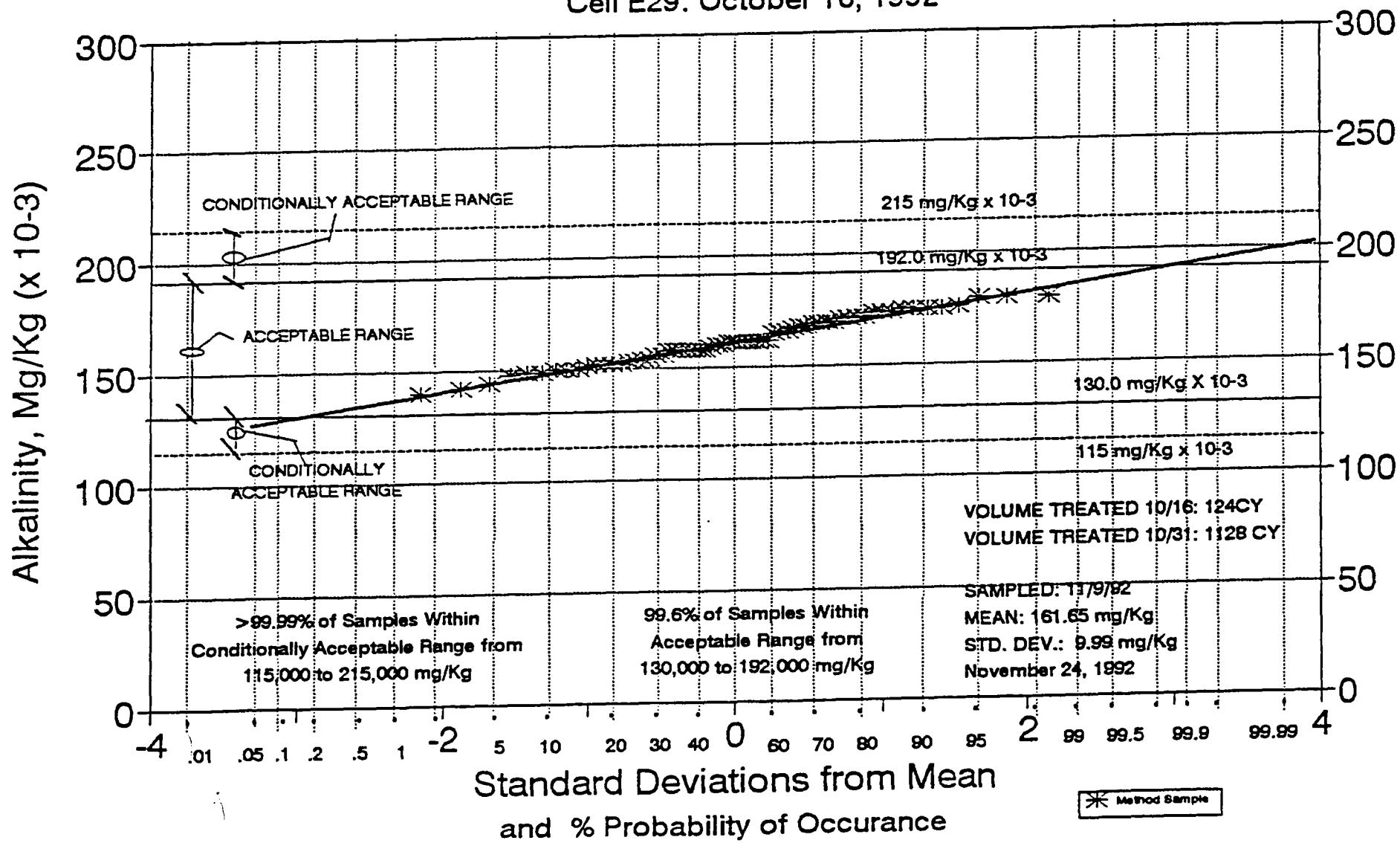


Figure 20
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells P19 and P20: November 2, 1992 Cells P21 and P22: November 3, 1992

Cells P23 and P24: October 29, 1992 Cell O24: October 24, 1992

Cells M25 and N25: October 26, 1992 Cells O25 and P25: October 27, 1992

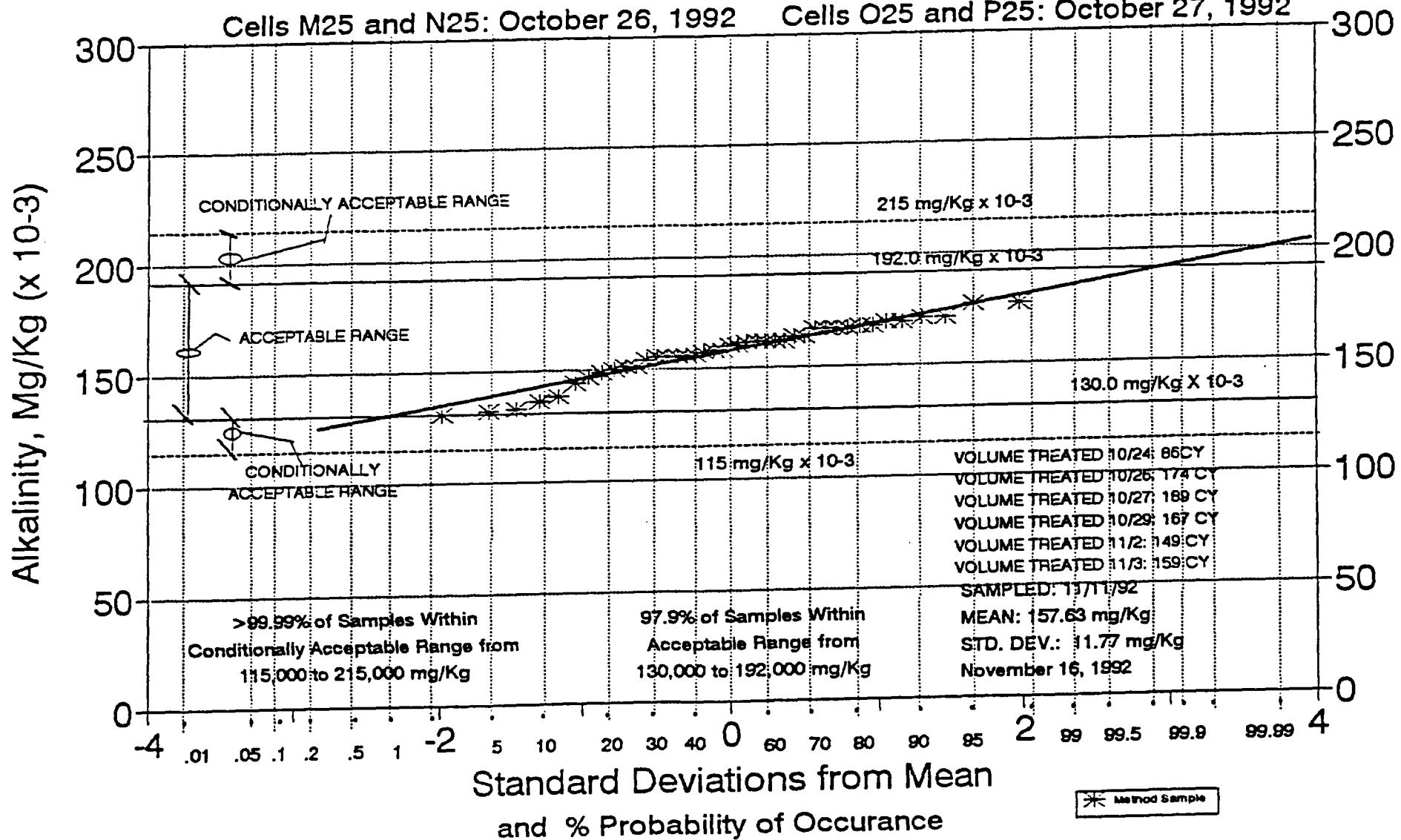


Figure 21
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells K25 and L25: November 5, 1992 Cell J28: October 31, 1992

Cell K28: October 30, 1992 Cells J29 and k29: October 15, 1992

Cells O25, P29, and Q29: October 28, 1992

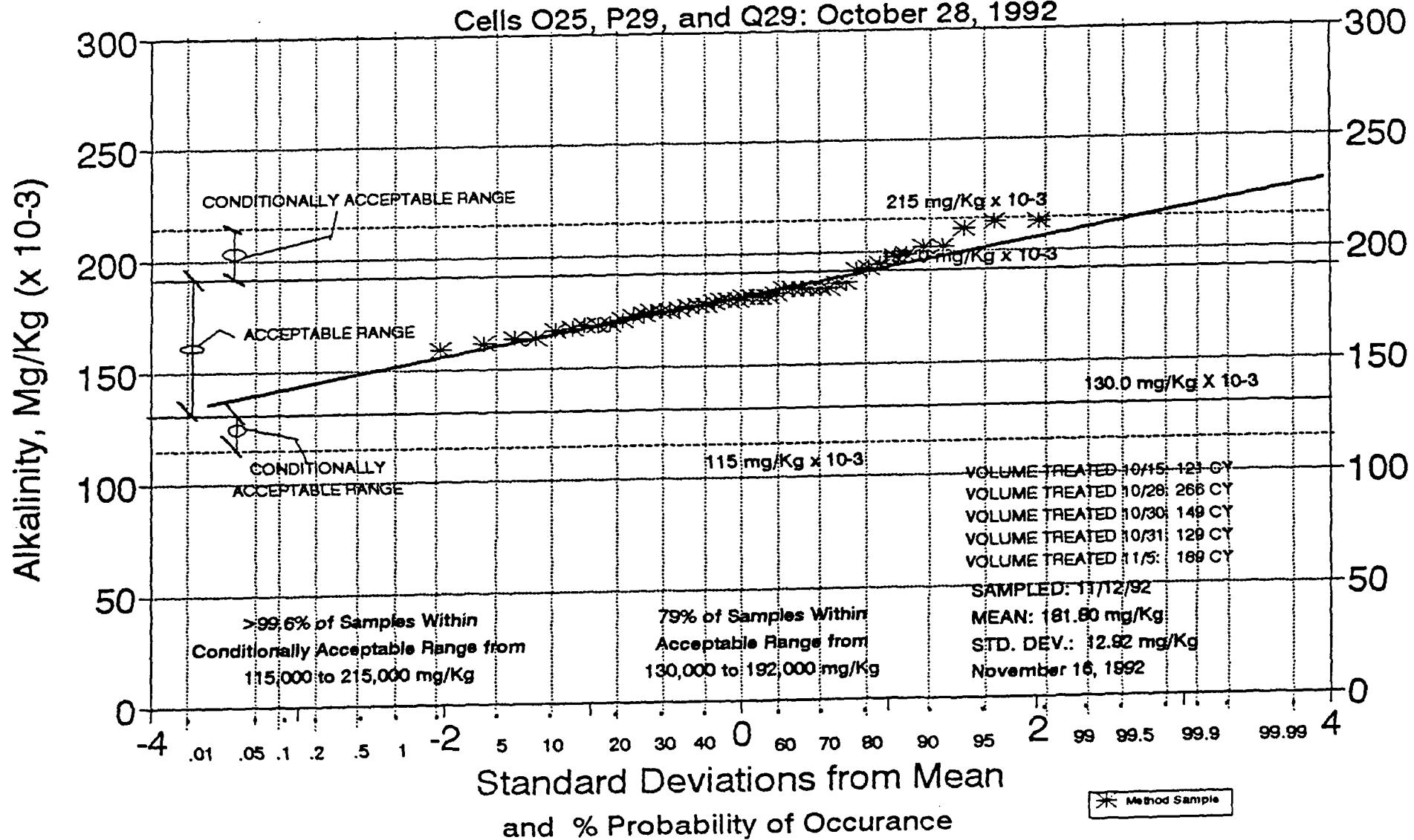


Figure 22
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells O19 and O20: November 2, 1992 Cell J28 and J24: October 27, 1992

Cell Q24 and Q25: October 29, 1992 Cells G30 and J31: November 3, 1992

Cell J30: October 15, 1992

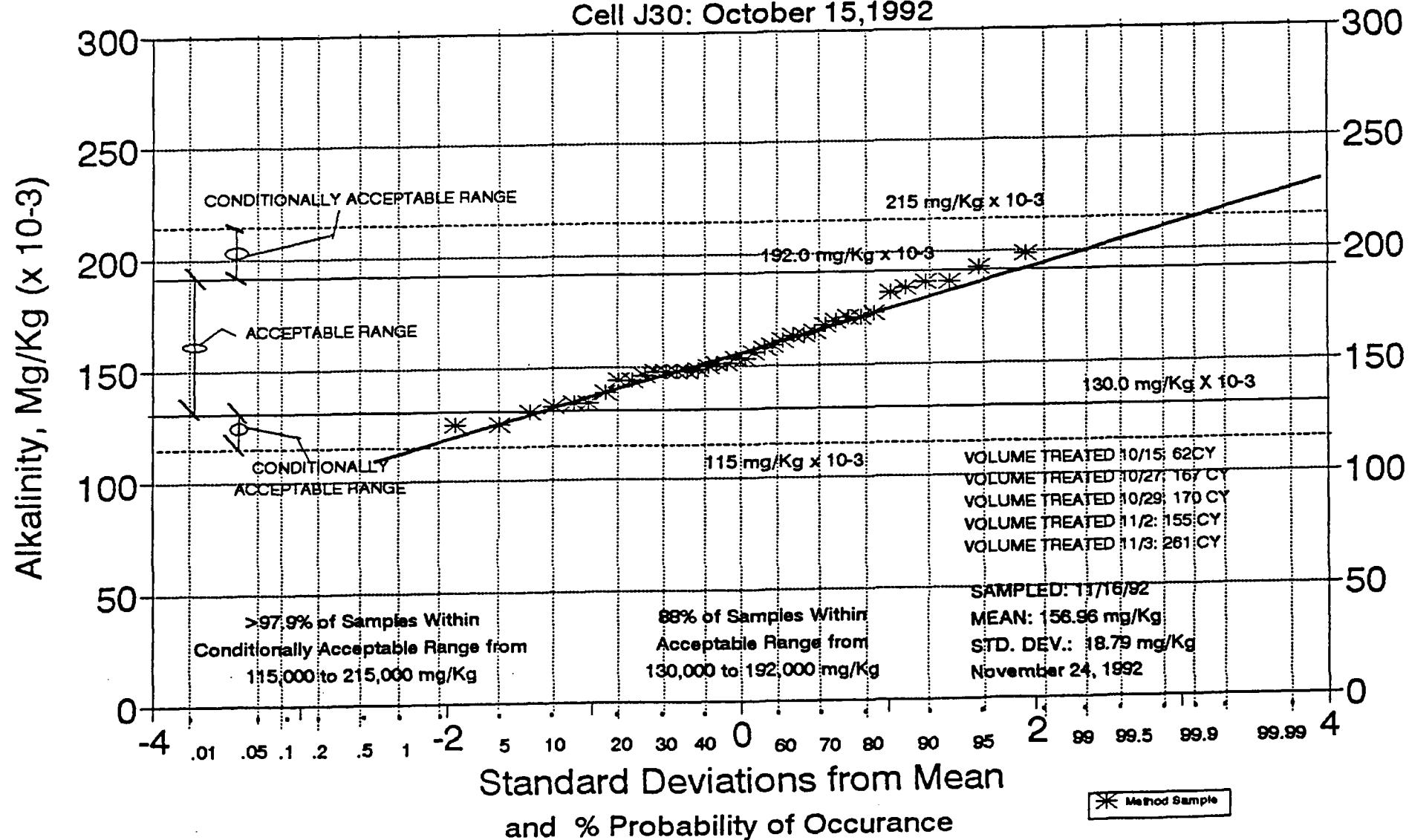


Figure 23
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells G19, H19, I19, J19, K19, L19, and M19: November 5, 1992 Cell N19 and N20: November 6, 1992
 Cell O20: November 2, 1992 Cell O21 and O22: November 3, 1992
 Cell O23: October 29, 1992

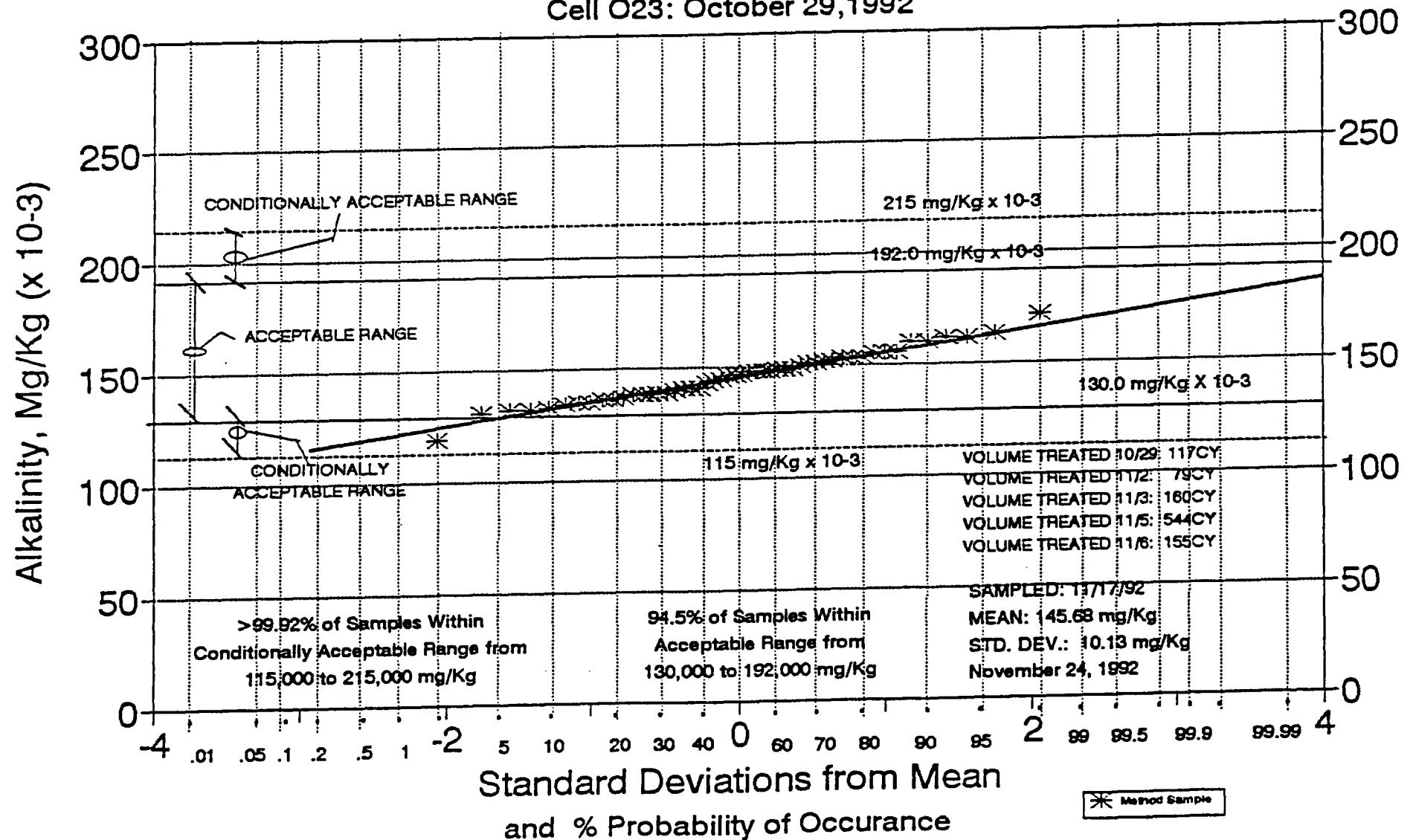


Figure 24
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells Q19, Q20, Q21, and Q22: October 30, 1992

Cell Q23: October 29, 1992

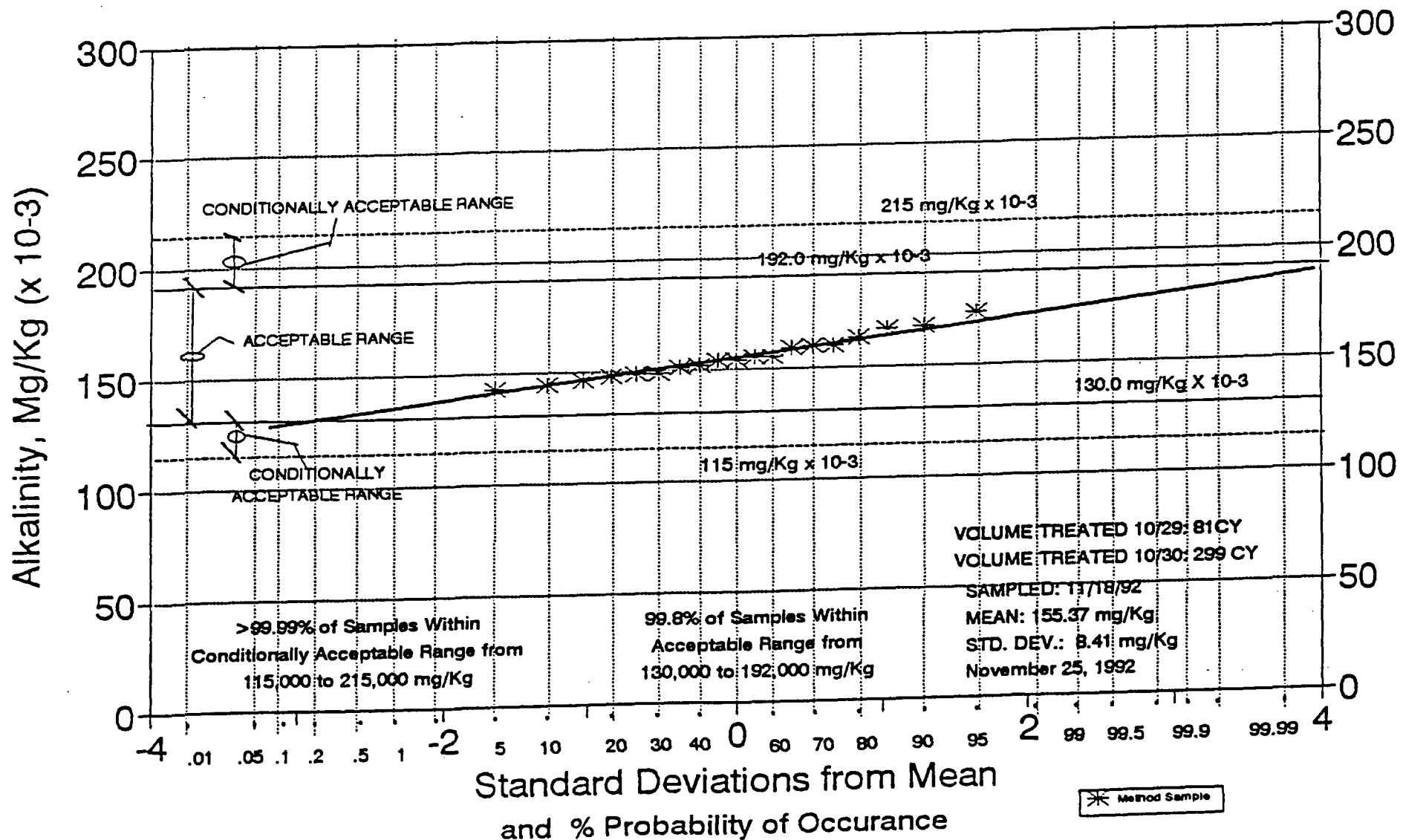


Figure 25
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells G17 and G18: November 12, 1992 Cells H17 and H18: November 17, 1992

Cell I18: November 10, 1992 J18 and K18: November 11, 1992

Cell L18: November 5, 1992 Cells M18 and N18: November 4, 1992

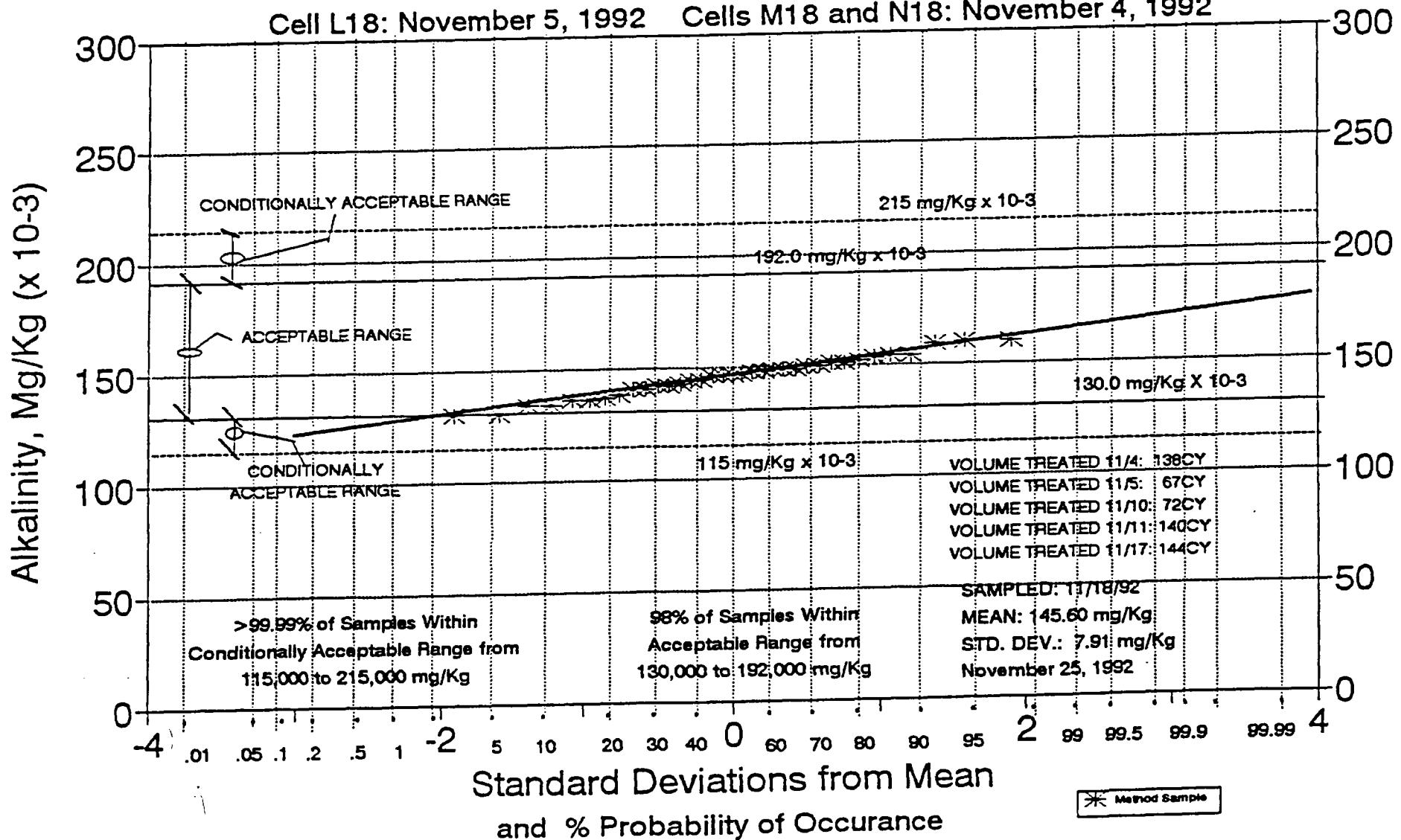


Figure 26
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of
Cells E14, F14, E15, F15, E16, F16, E18, and F18: November 9, 1992
Cells E12, F12, E13, and F13: November 10, 1992 Cells G16, E17 and F17: November 11, 1992
Cells G13, H13, G14, H14, G15, and G16: November 12, 1992

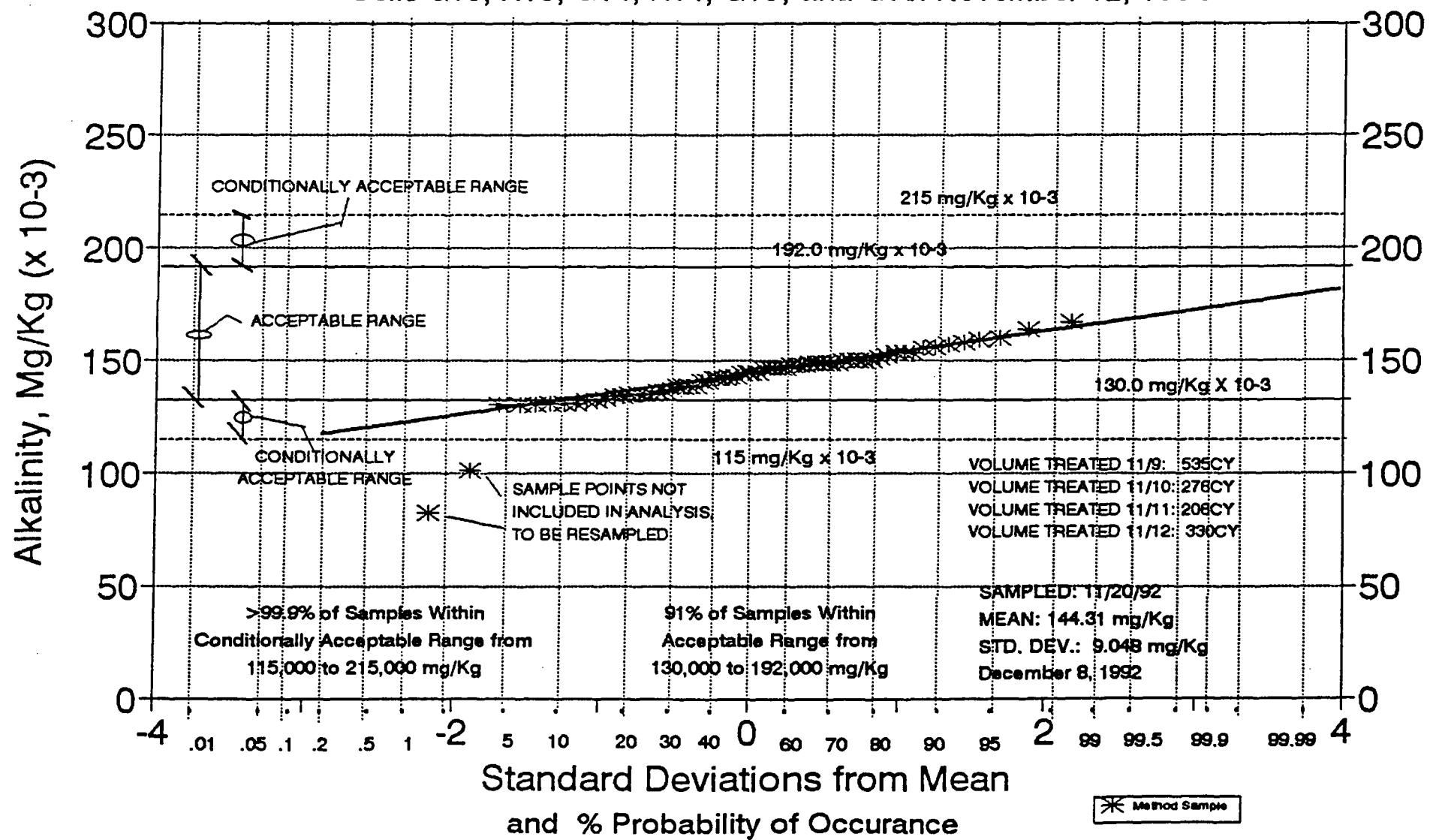


Figure 27
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells H25, H26, and H27: November 4, 1992

Cells I25, J25, J26, K26, L26, M26, N26, O26, P26, and Q26: November 5, 1992

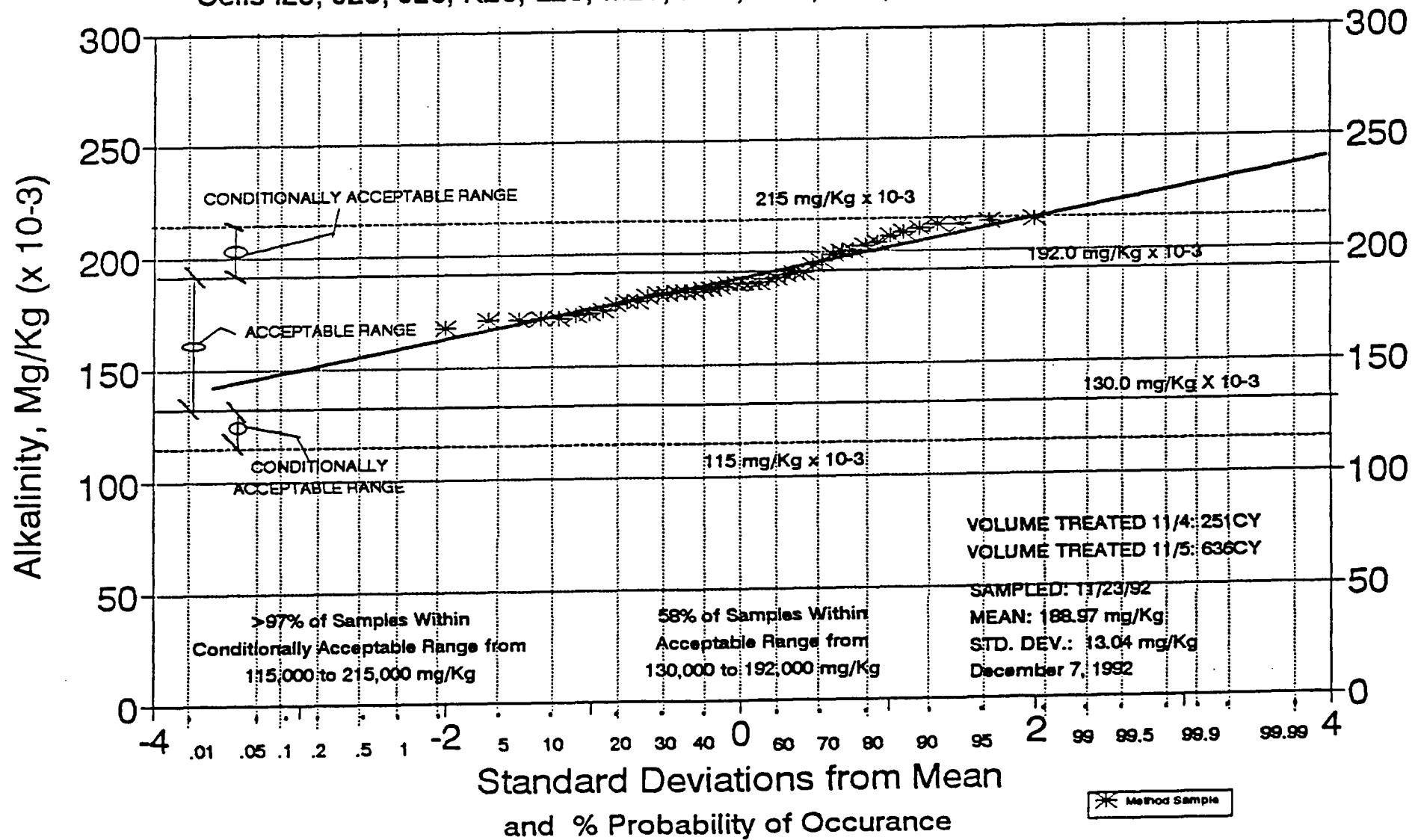


Figure 28
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell K27, L27, M27, L28, M28, N28, O28, P28, Q28, and P29: October 30, 1992

Cell J27: October 31, 1992 Cells H27 and I27: November 4, 1992

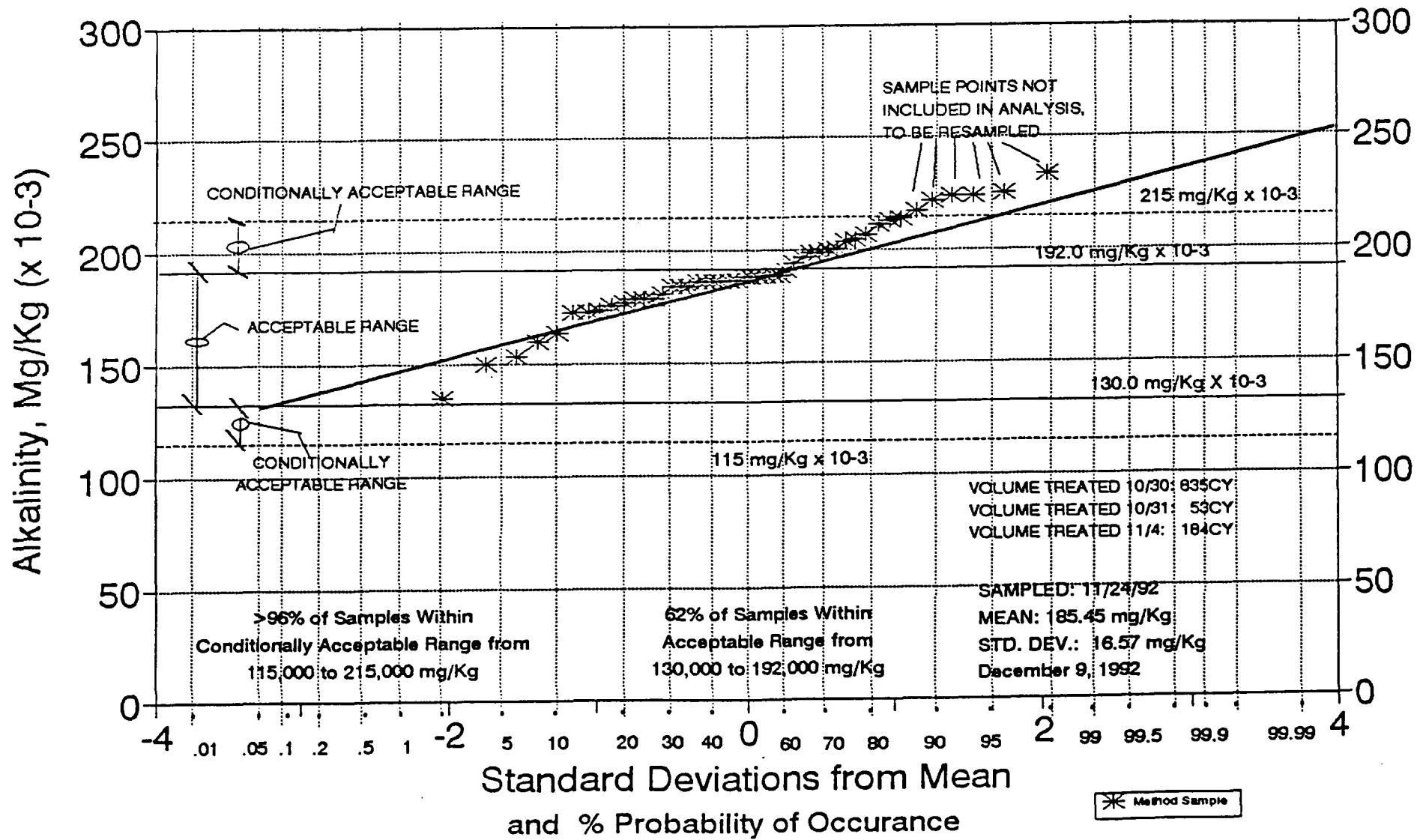


Figure 29
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell D21, E21, F21, D22, E22, F22, G22, H22, and I22: November 2, 1992

Cell L20, M20, M21, N21, J22, K22, L22, M22, and N22: November 13, 1992

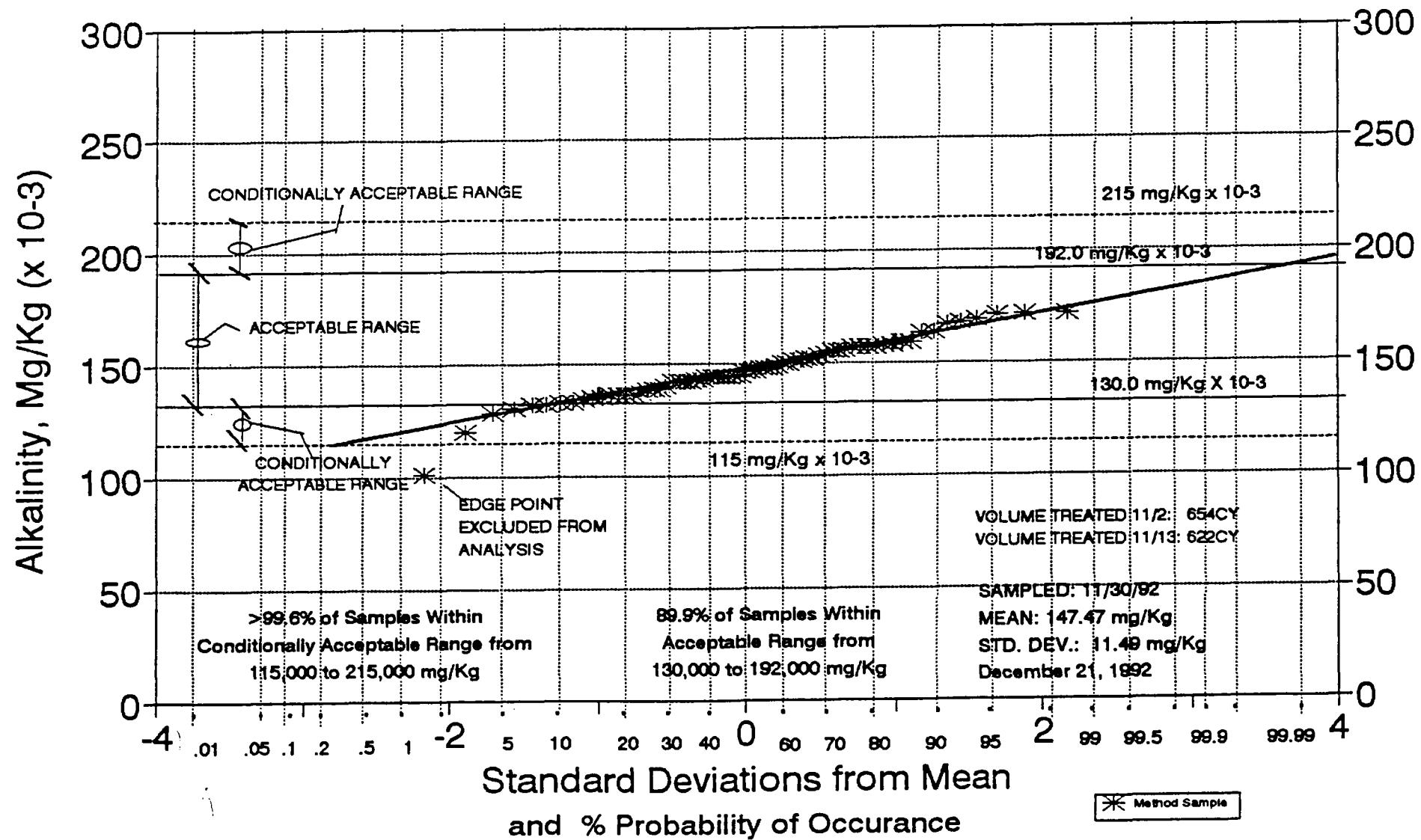


Figure 30
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell H20, I20, J20, and K20: November 13, 1992

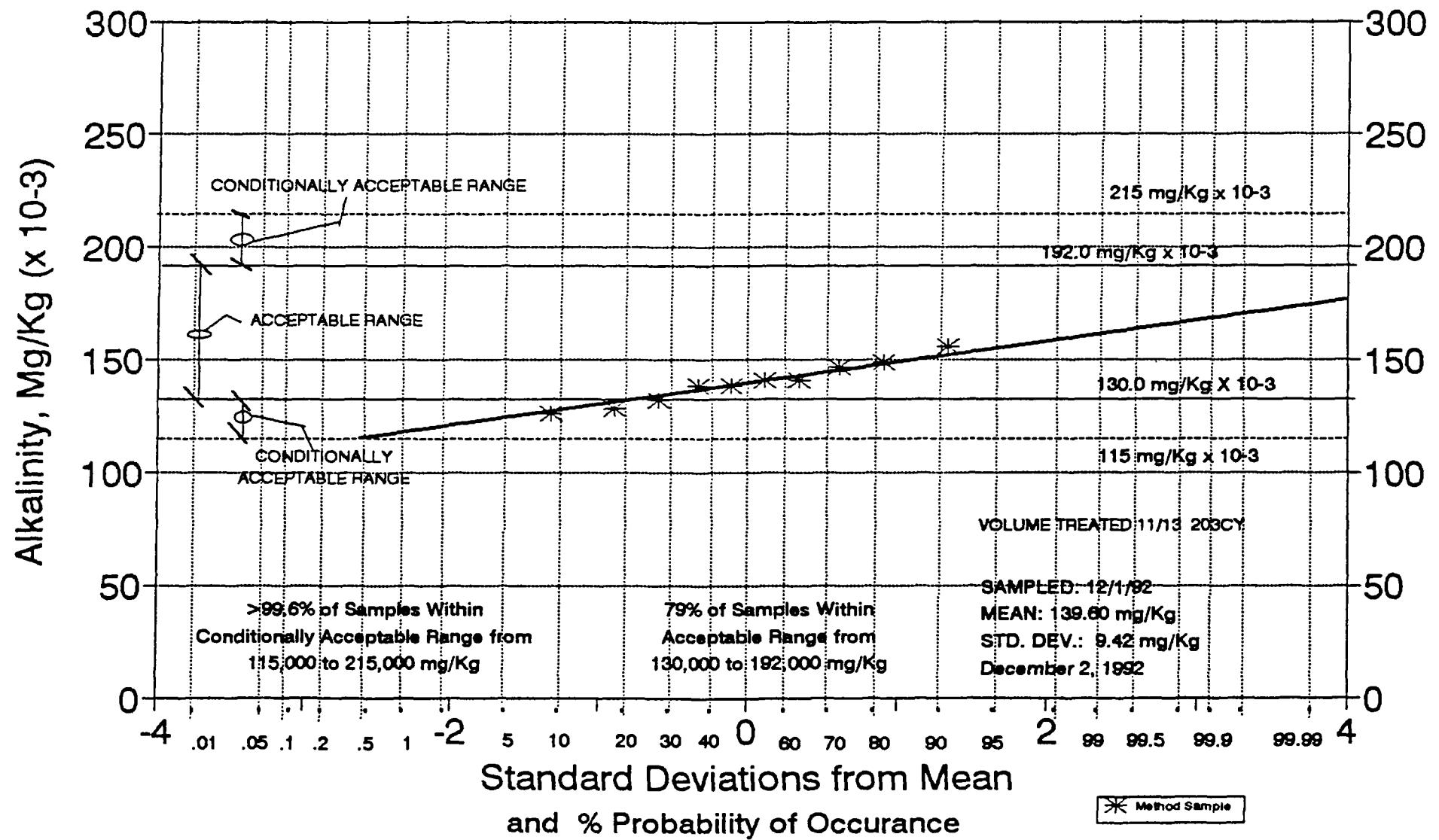


Figure 31
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of

Cell E19 and F19: November 16, 1992

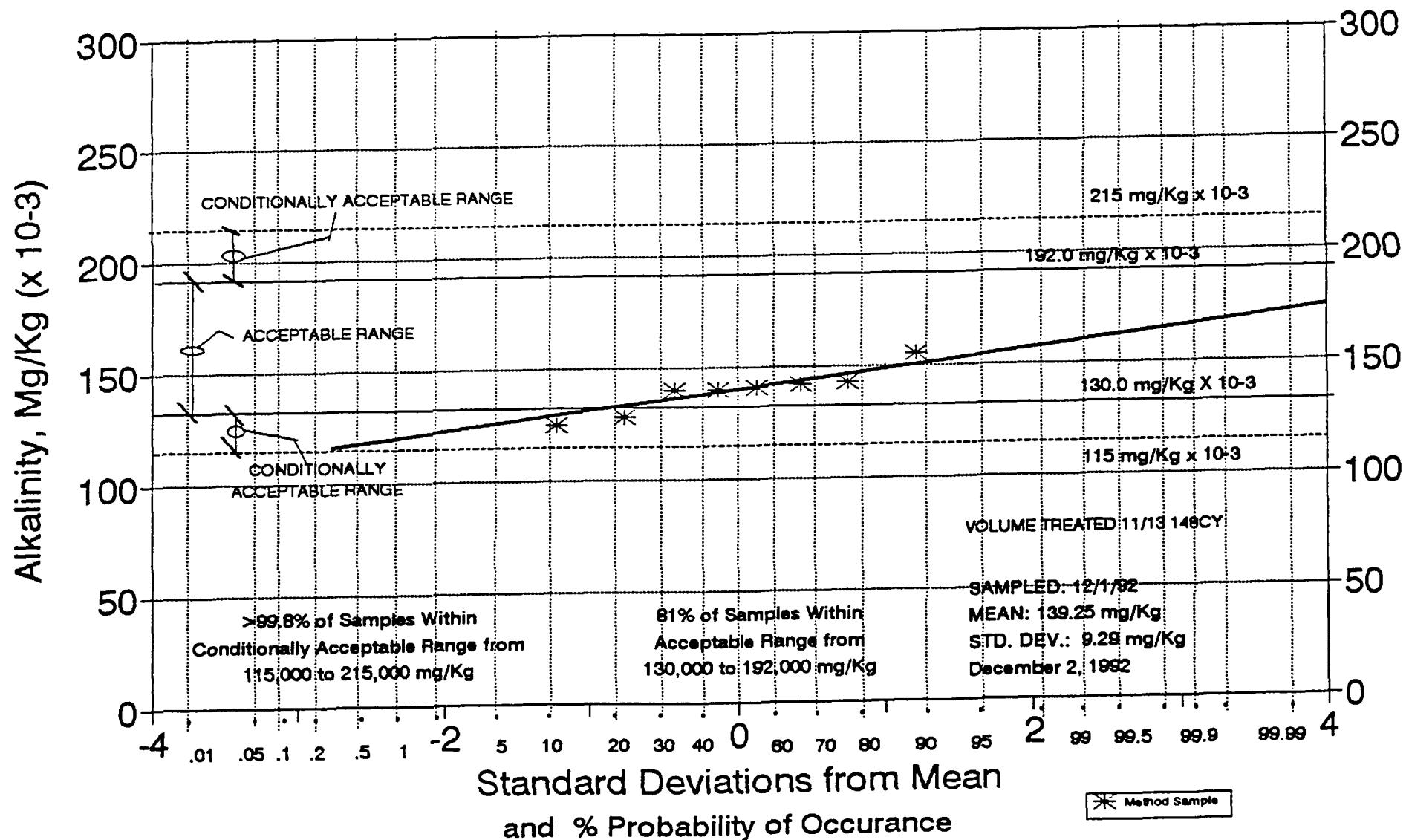


Figure 32
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells J13, K13, L13, K14, and L14: November 17, 1992 Cell J14: November 13, 1992

Cells M13, N13, and M14: November 16, 1992

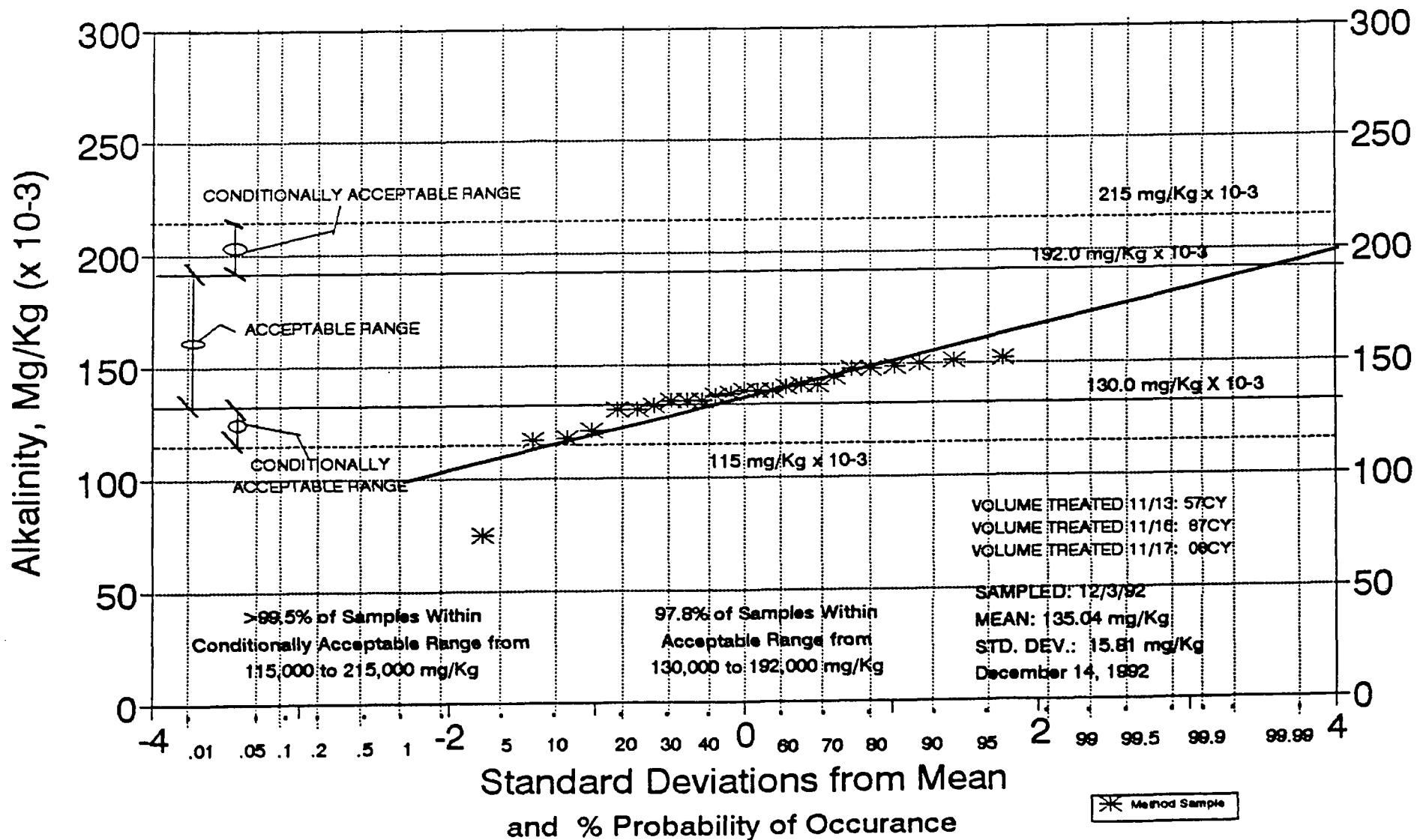


Figure 33
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of
 Cells P18, Q18, R18, R19, R20, R21, R22, R23, R24, R25, R26, and R27: November 19, 1992

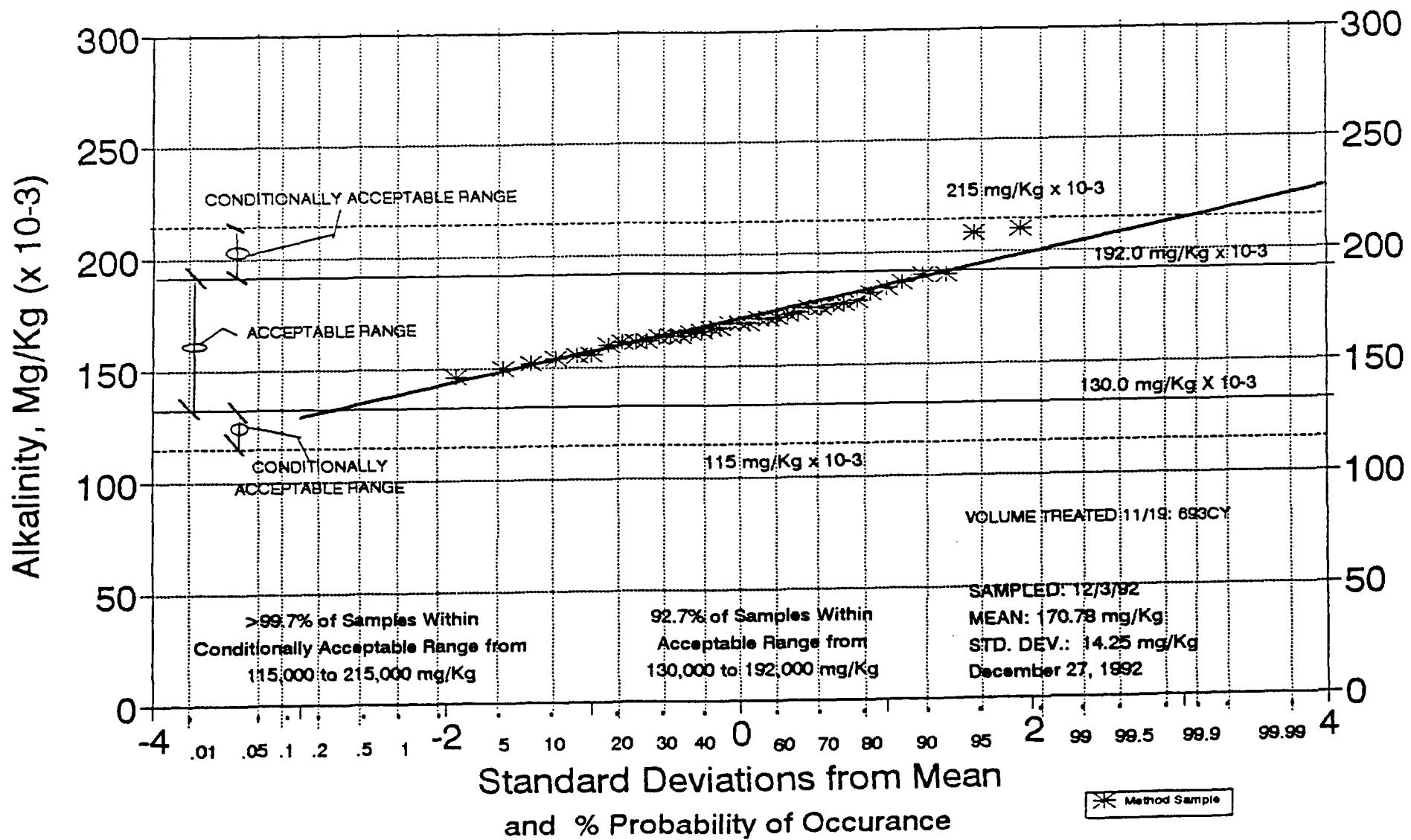


Figure 34
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell I13: November 13, 1992 Cell J13: November 17, 1992

Cells O13, N3, and O14: November 20, 1992

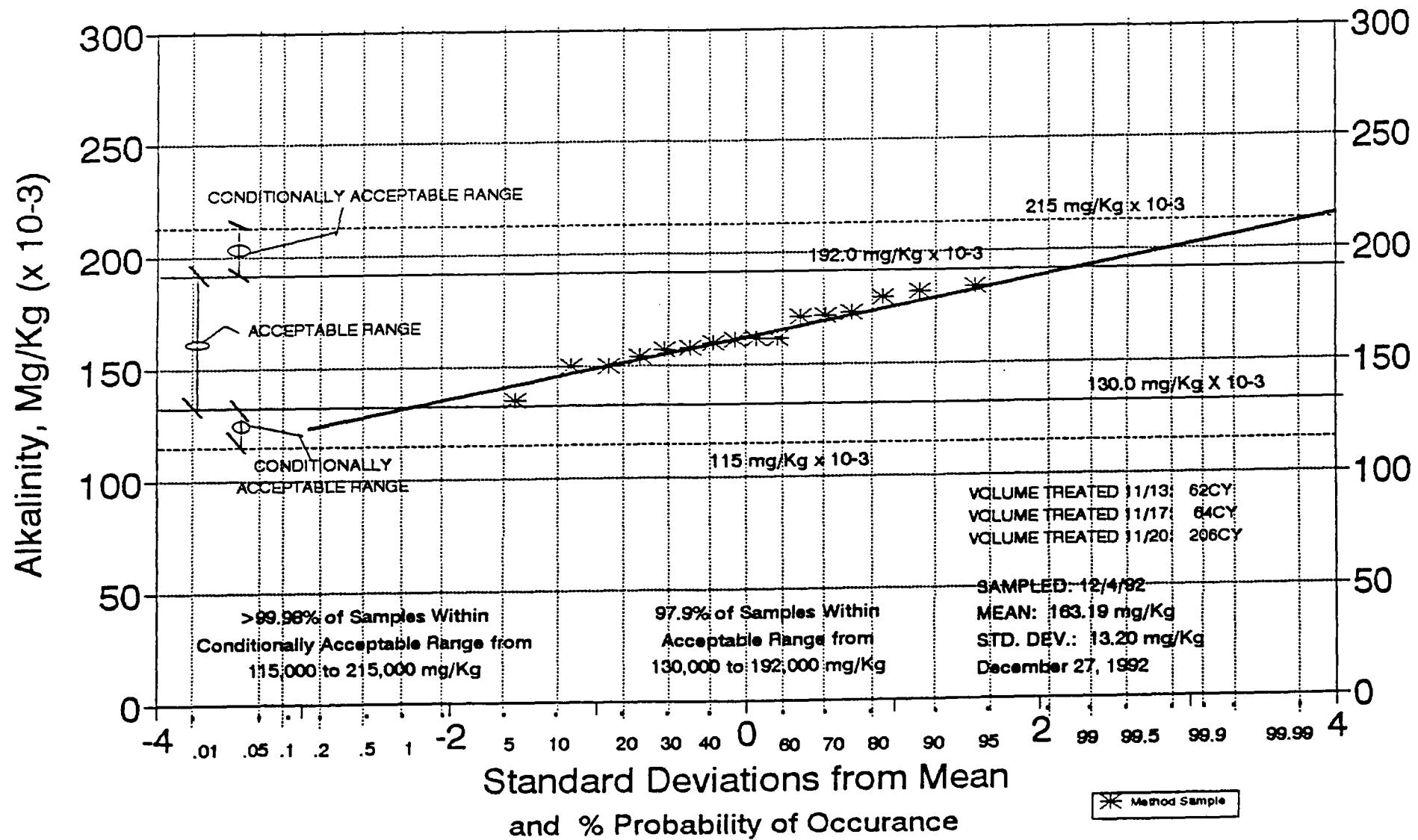


Figure 35
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell P12: November 18, 1992

Cells P13 and P14: November 20, 1992

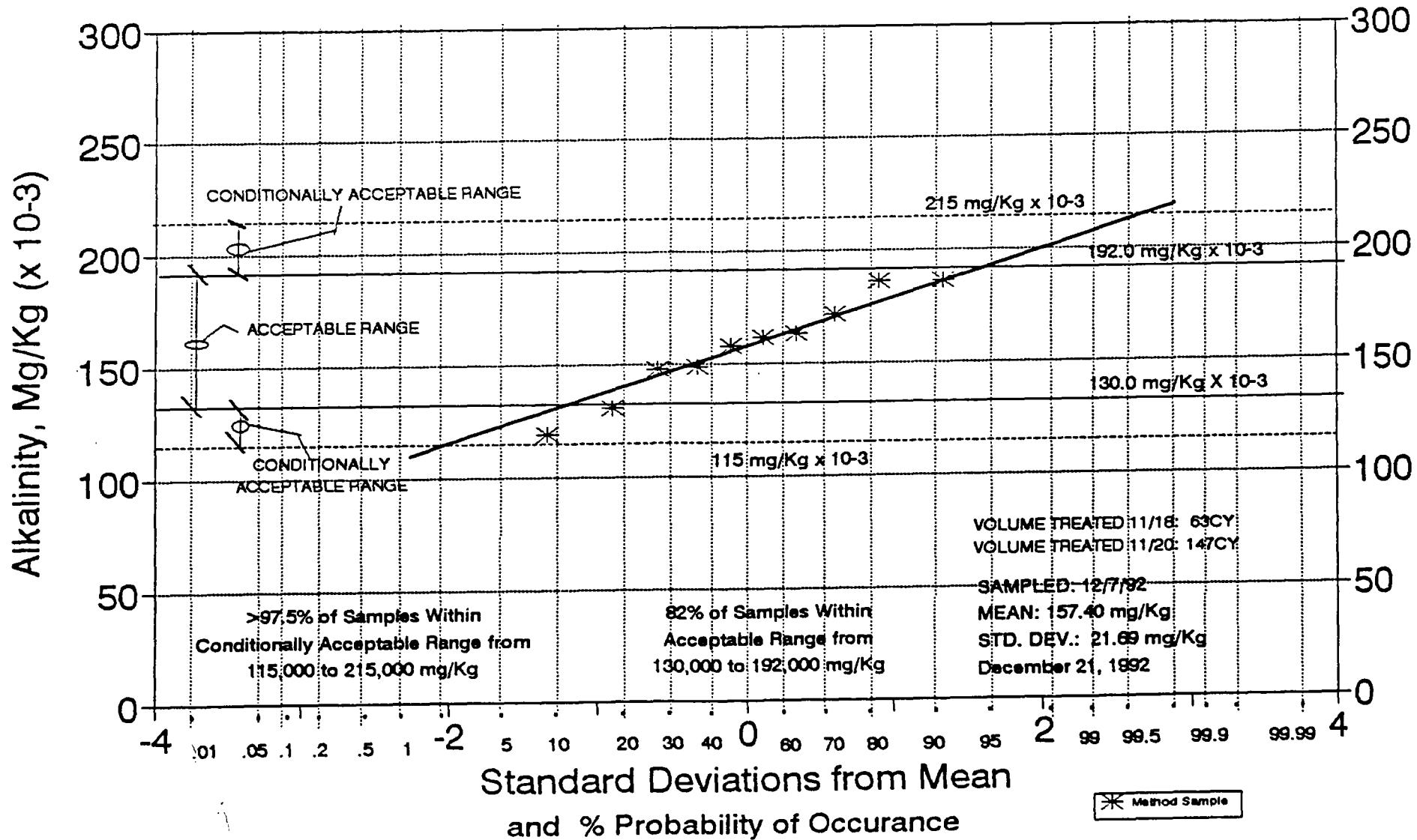


Figure 36
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells O8,O9, P9, and P10: November 20,1992 Cell P8: November 18, 1992

Cell O12: November 17, 1992 Cells O10, 011, and P11: November 18, 1992

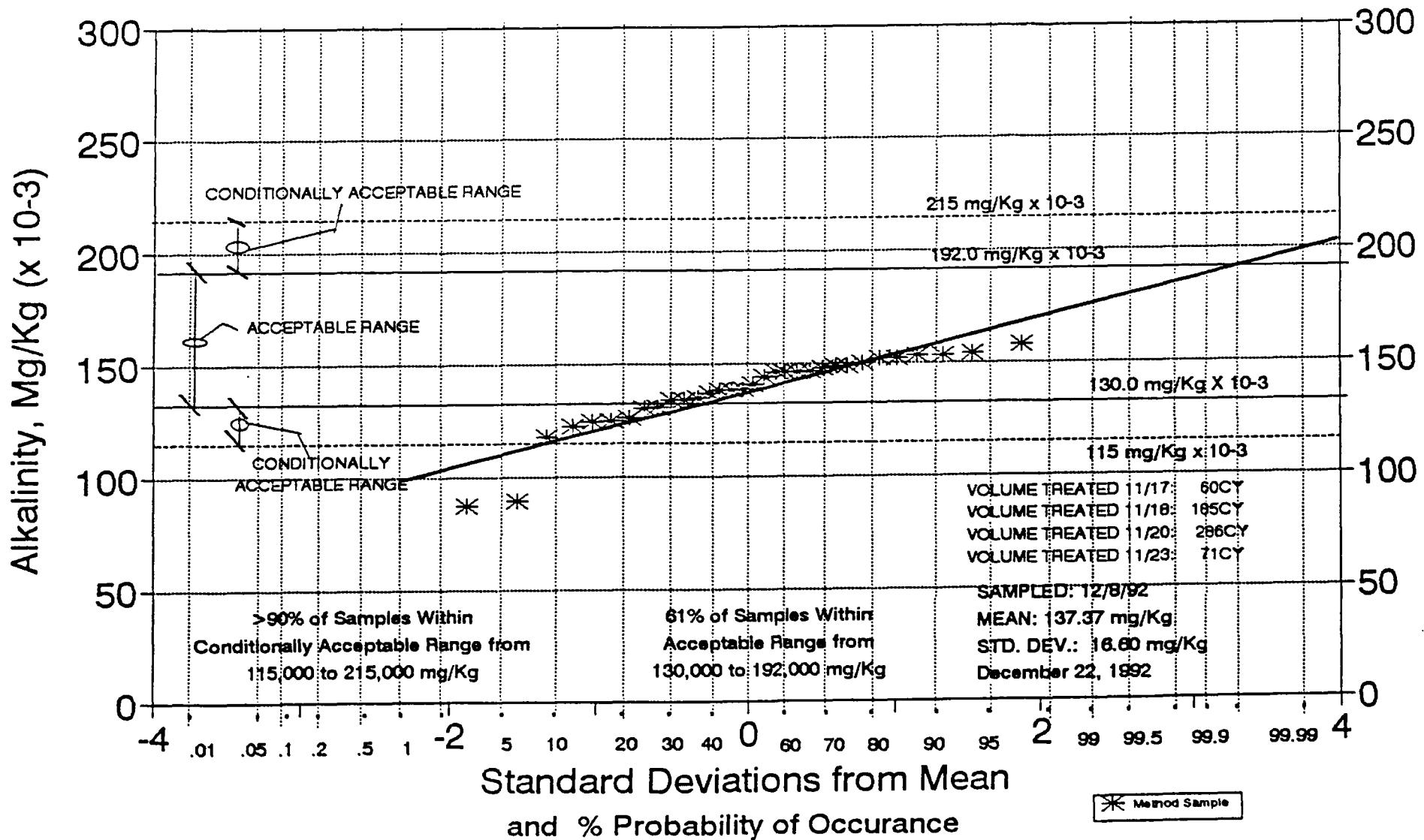


Figure 37
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells E10, F10, E11, and F11: November 16, 1992

Cells G12 and H12: November 12, 1992 Cell I12: November 13, 1992

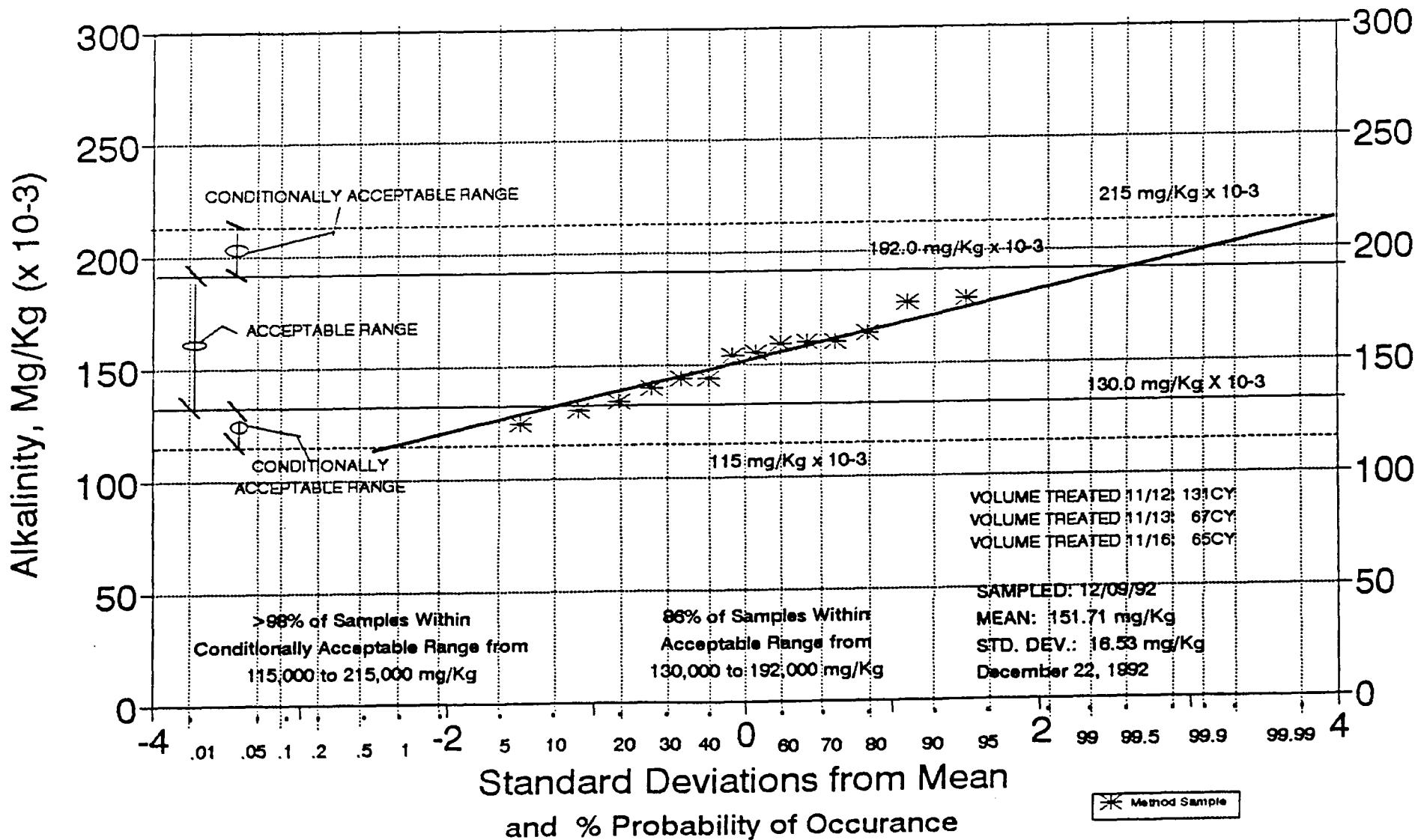


Figure 38
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of

Cells H8 and I8: December 4, 1992 Cells J8 and k8: December 2, 1992

Cells L8 and N8: November 19, 1992 Cell M8: November 30, 1992 Cell M9 and N9: November 18, 1992

Cells L10, M10, L11, M11 and L12: November 24, 1992 Cells N10 and N11: November 17, 1992

Cells M12 and N12: November 16, 1992

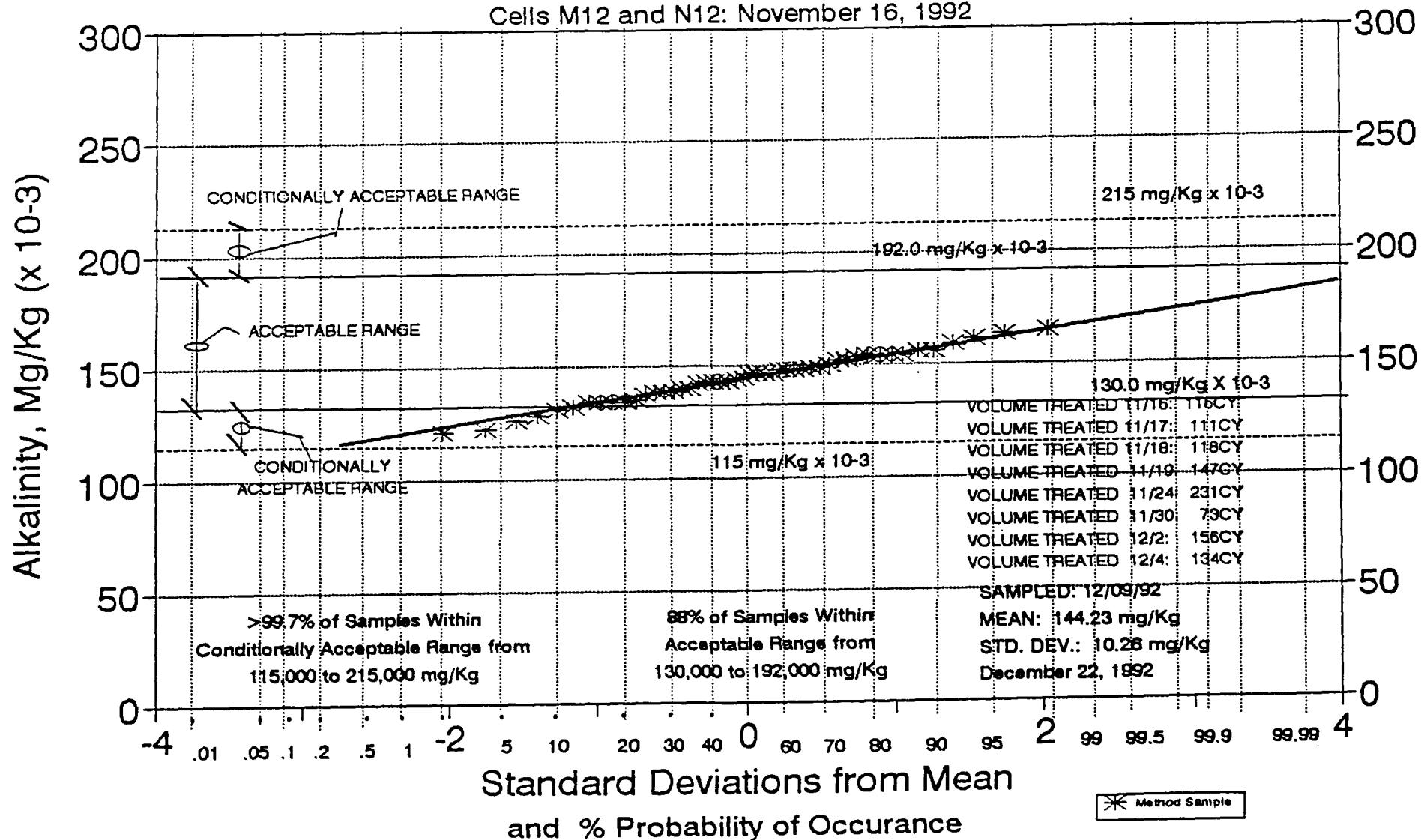


Figure 39
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of

Cell M6: December 9, 1992 Cells N6, O6, and P6: December 8, 1992
 Cells M7, N7, O7, and P7: November 23, 1992 Cell N8: November 19, 1992
 Cell O8: November 20, 1992

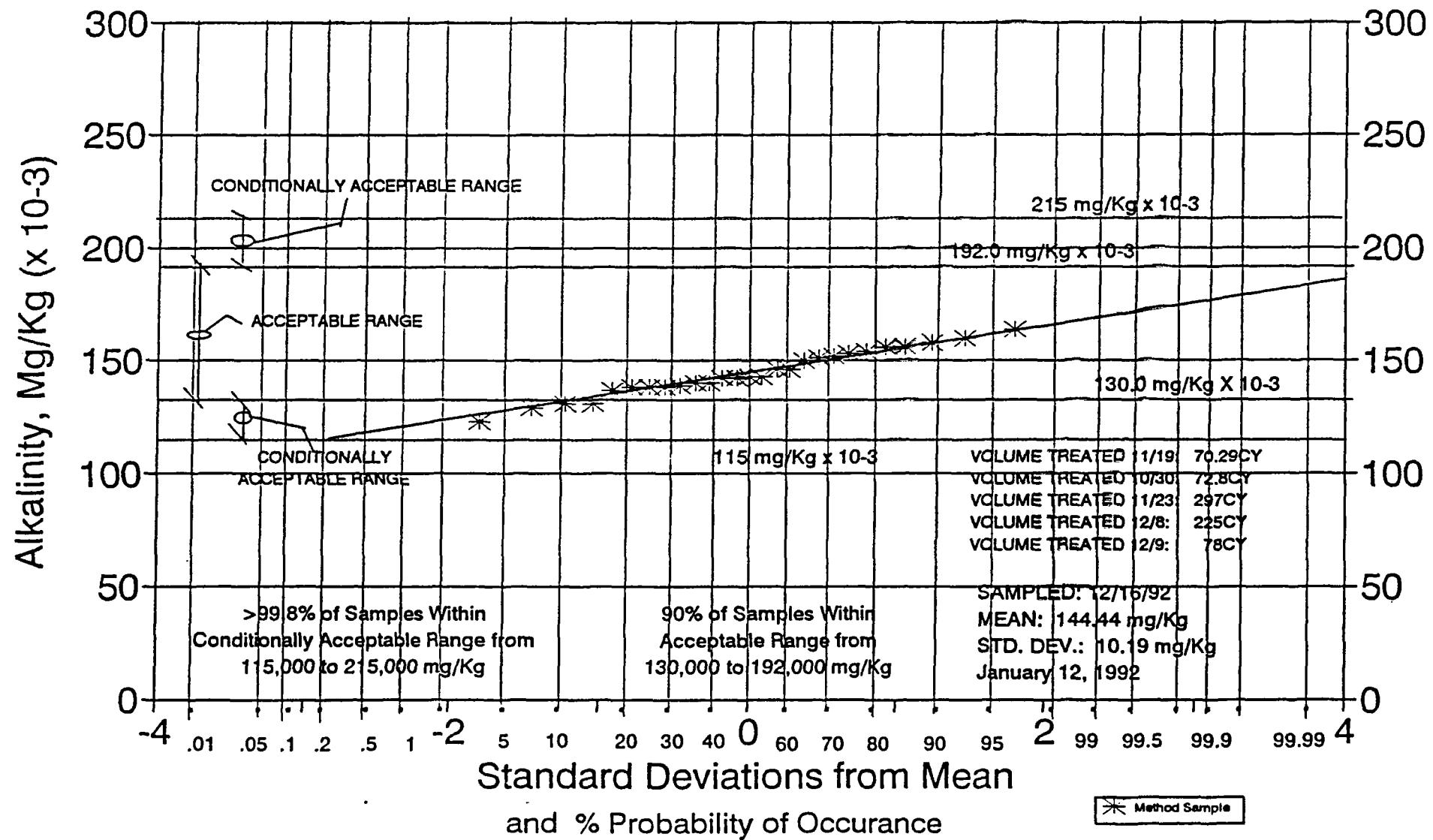


Figure 40
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells C21, C22, C23, C24, C25, C26, C27, C28, C29, and C30: November 2, 1992

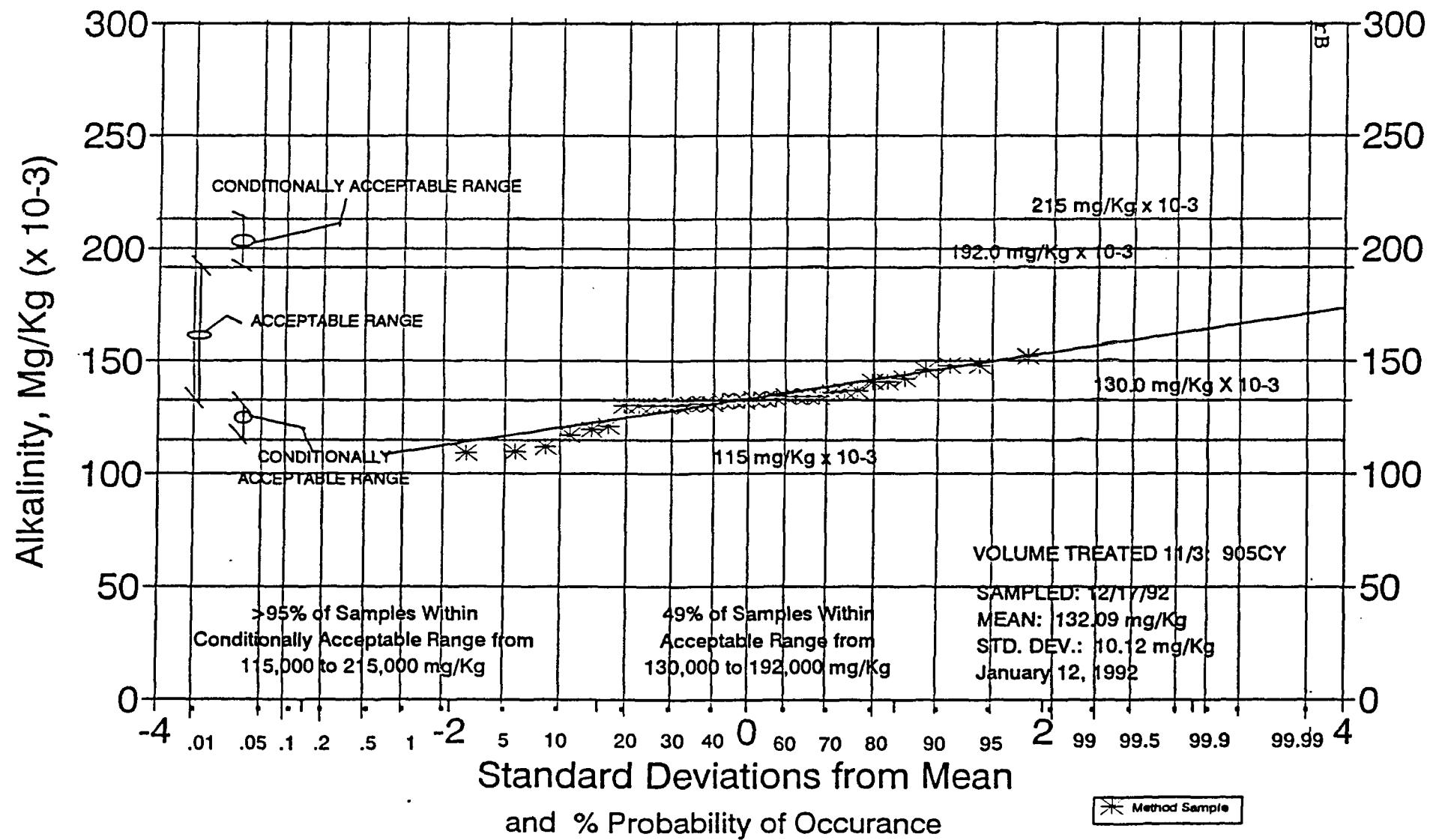


Figure 41
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of

Cells D14, D15, D16, D17, D18, and D19: November 16, 1992

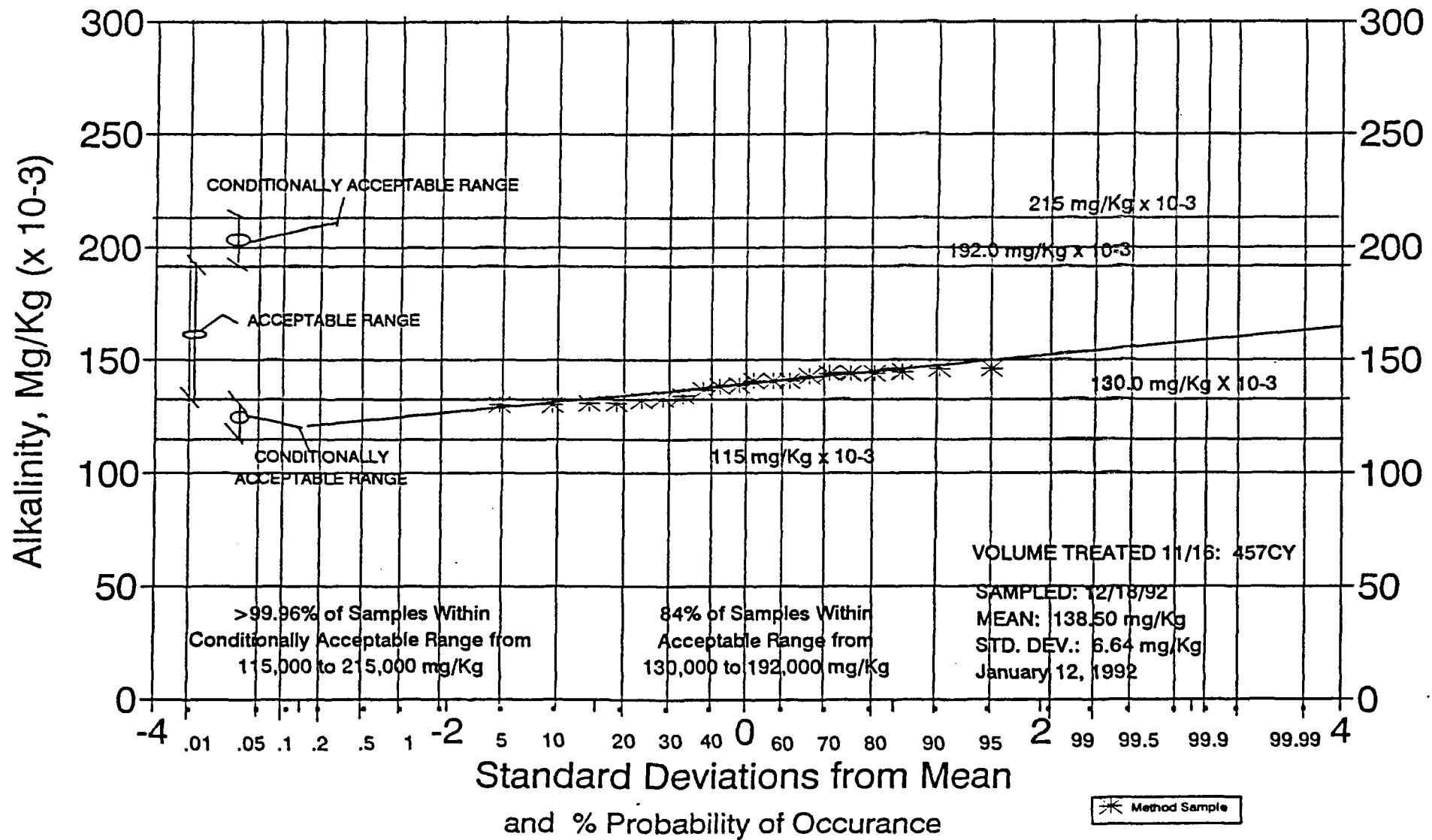


Figure 42
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells G6 and H6: November 25, 1992 Cells I6 and J6: November 24, 1992
 Cells K6: December 7, 1992 Cell G7: November 30, 1992

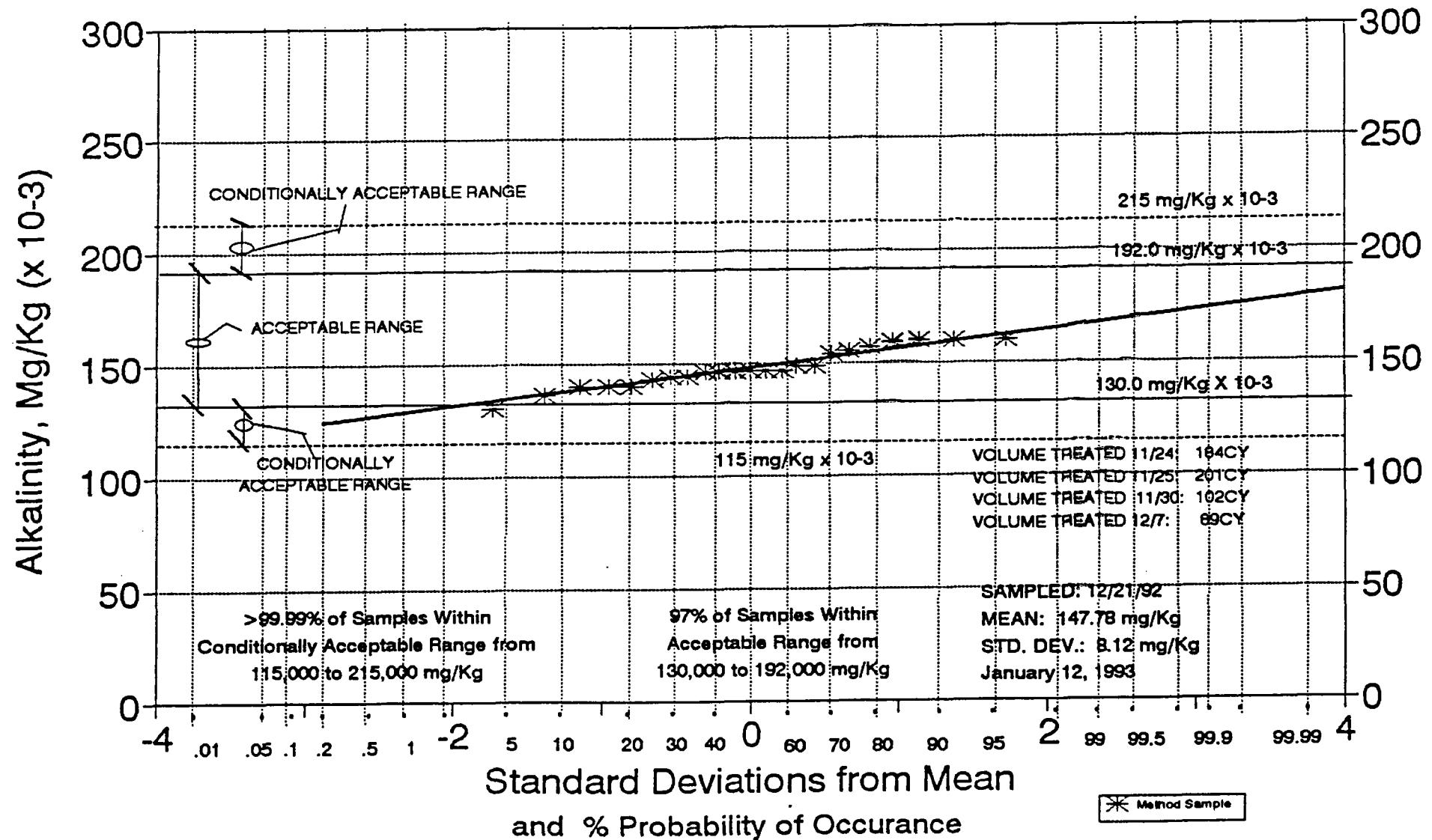


Figure 43
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell D30: November 2, 1992 Cell E30: October 31, 1992 Cell F30: November 3, 1992
 Cells C31, D31, and E31: December 9, 1992 Cell F31: November 5, 1992

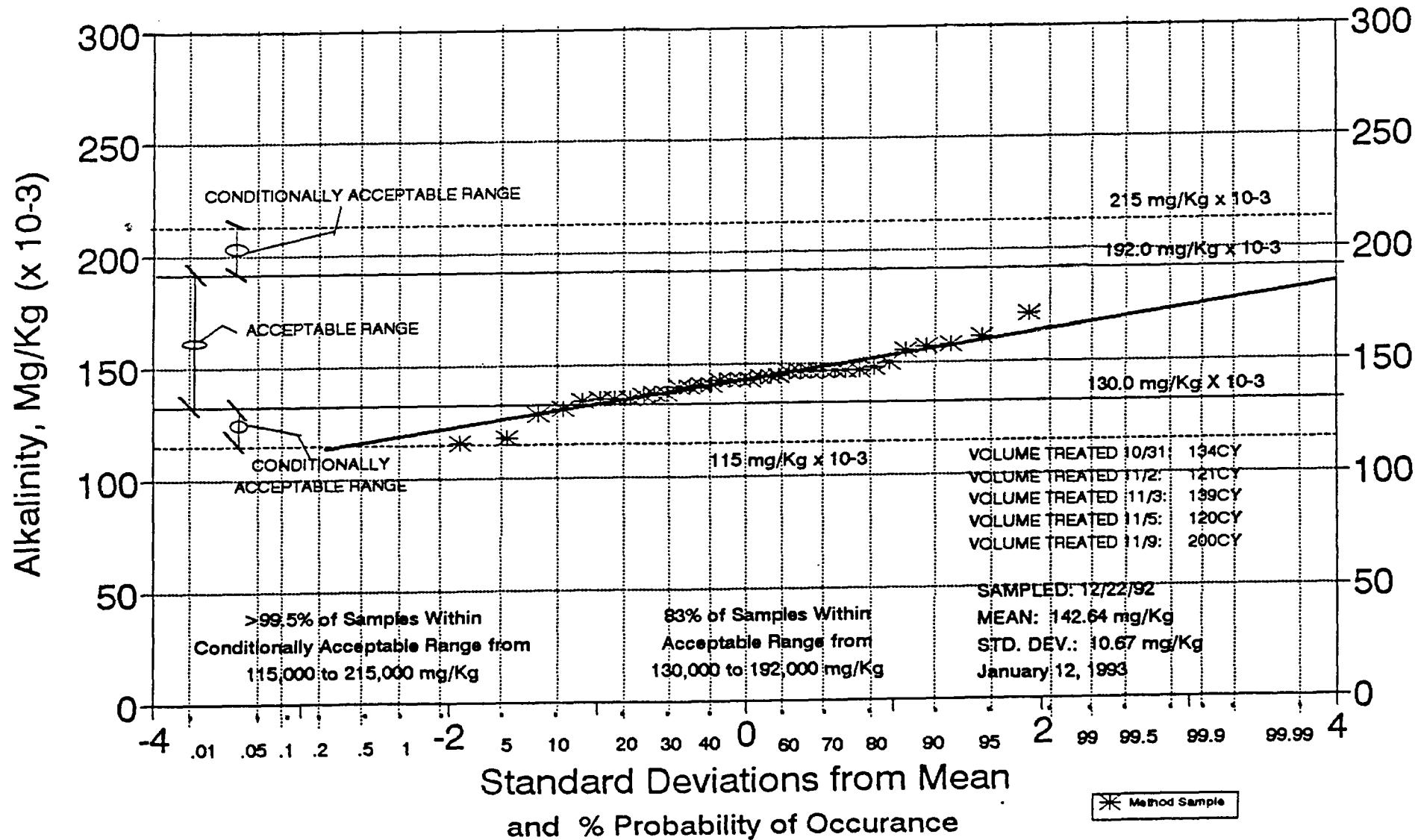


Figure 44
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell L6: December 9, 1992 Cell L7: November 23, 1992

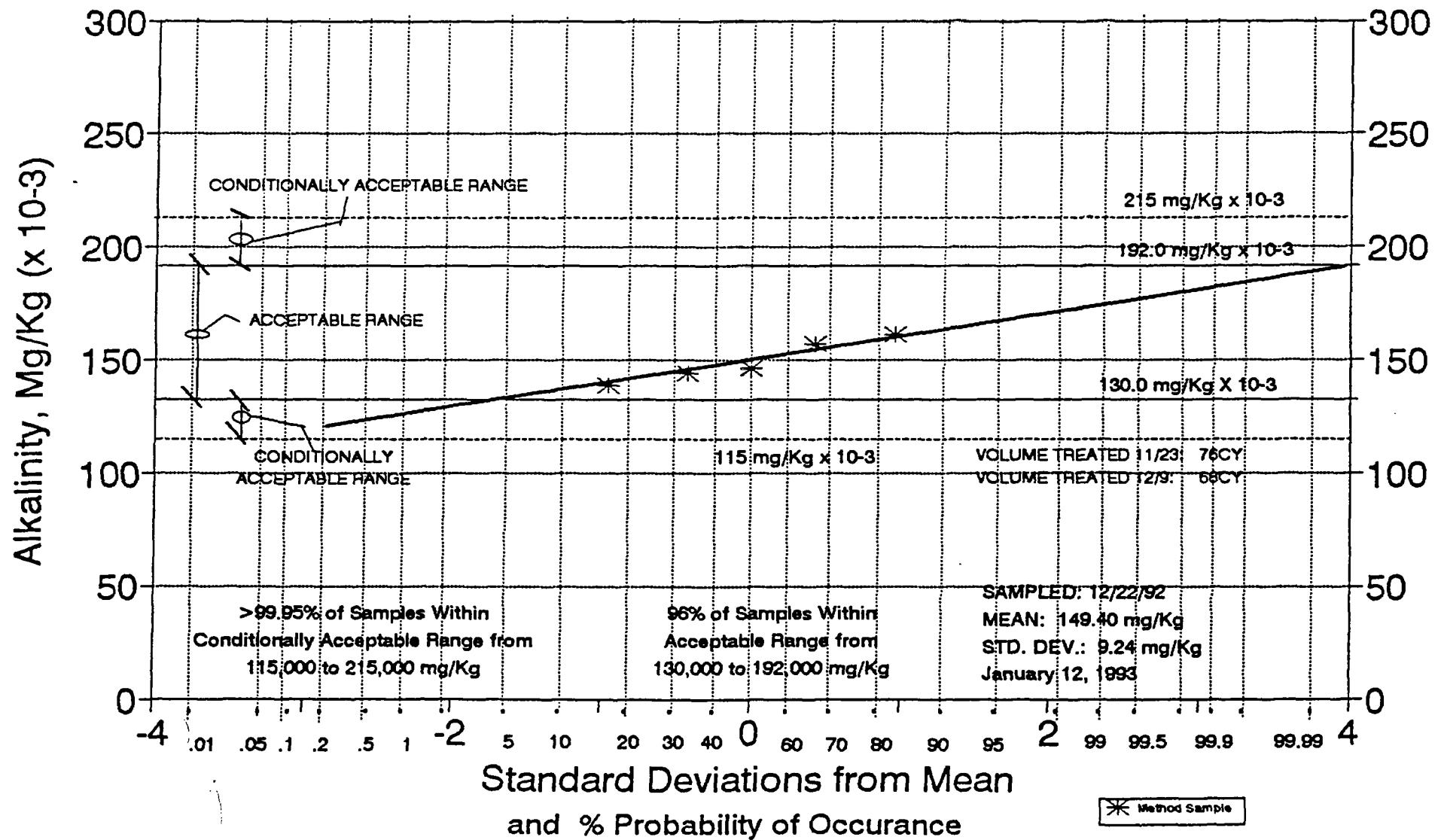


Figure 45
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells G31, H31, and I31: November 3, 1992

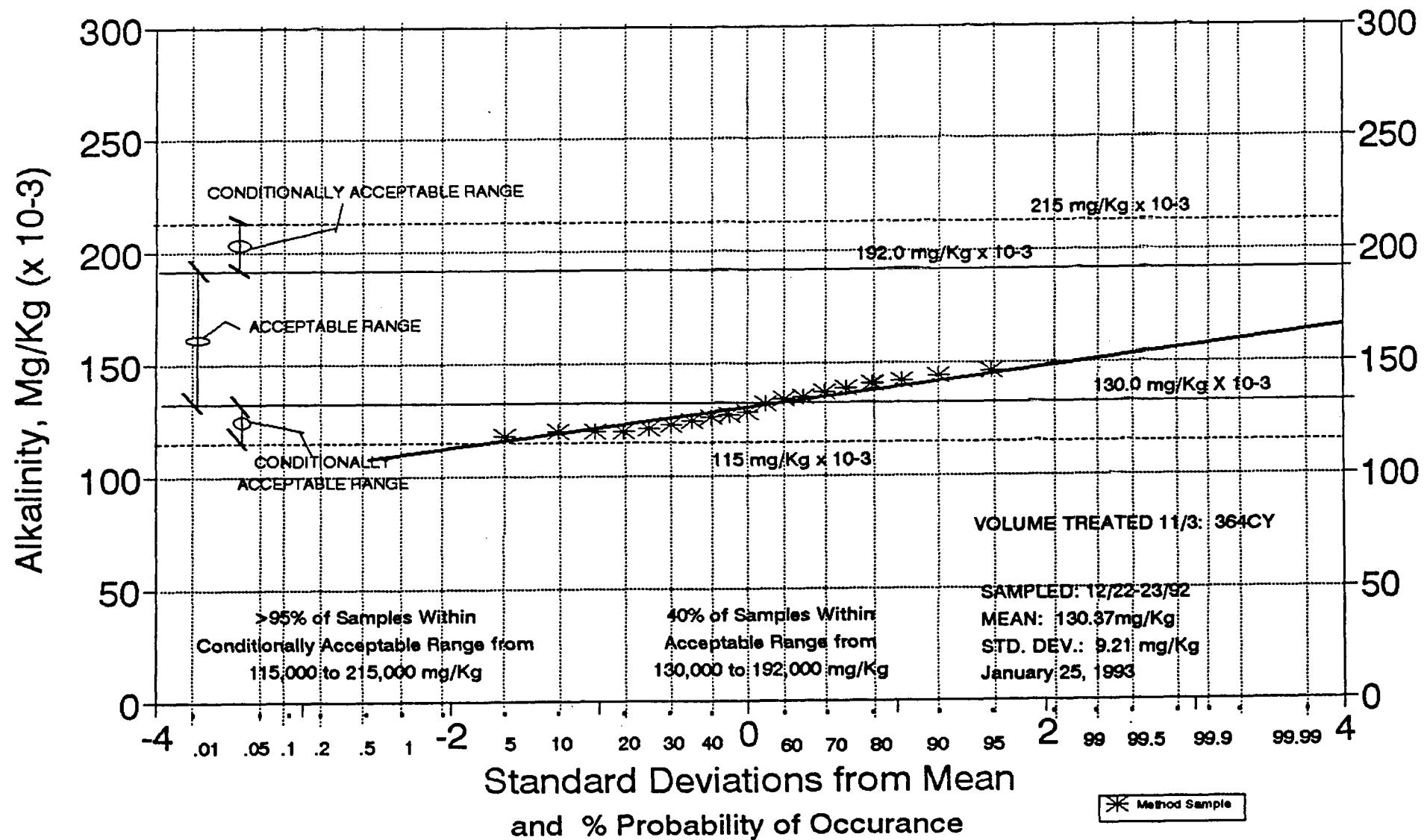


Figure 46
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of

Cells O32 and P32: December 16, 1992

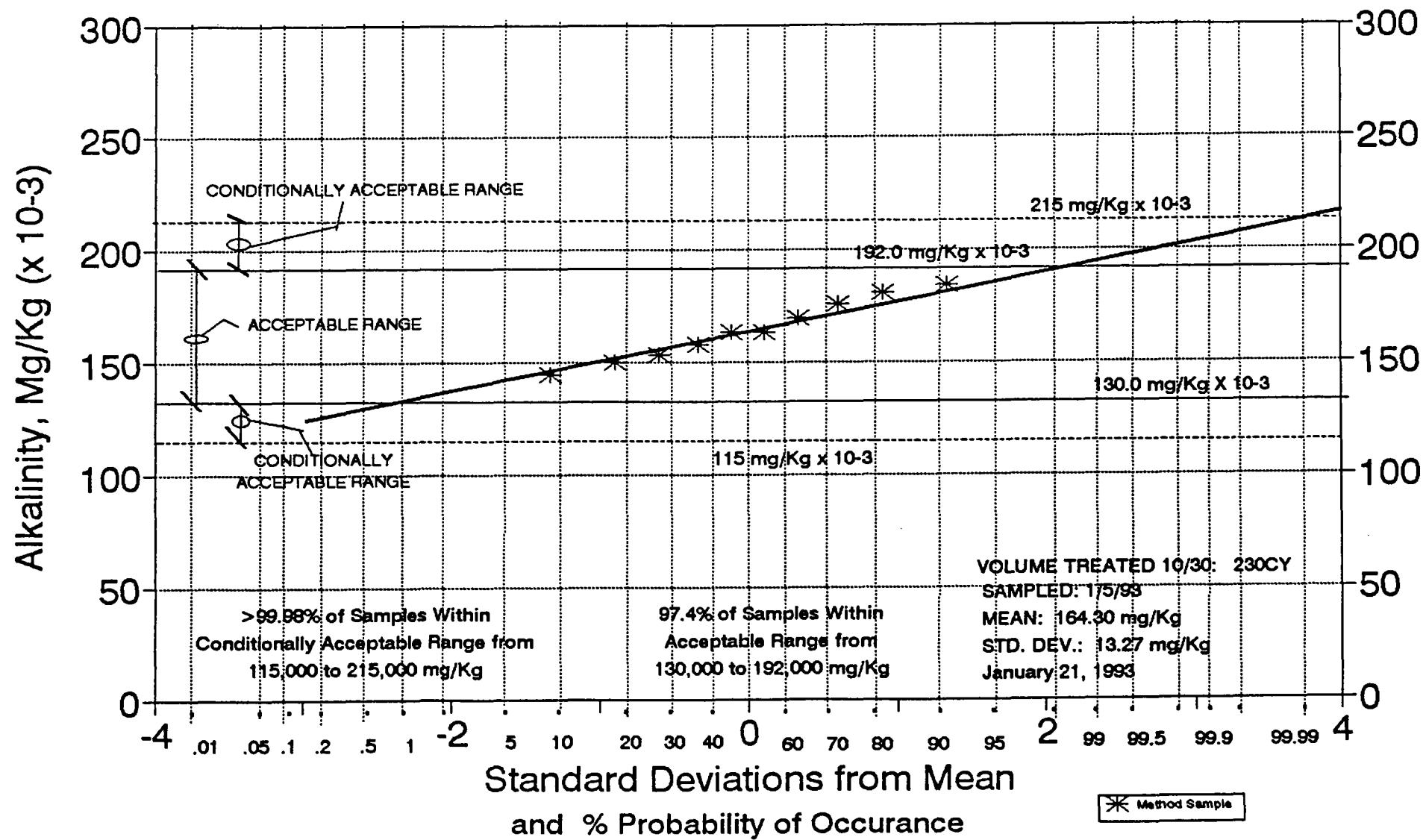


Figure 47
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells C27, C28, and C29: November 2, 1992

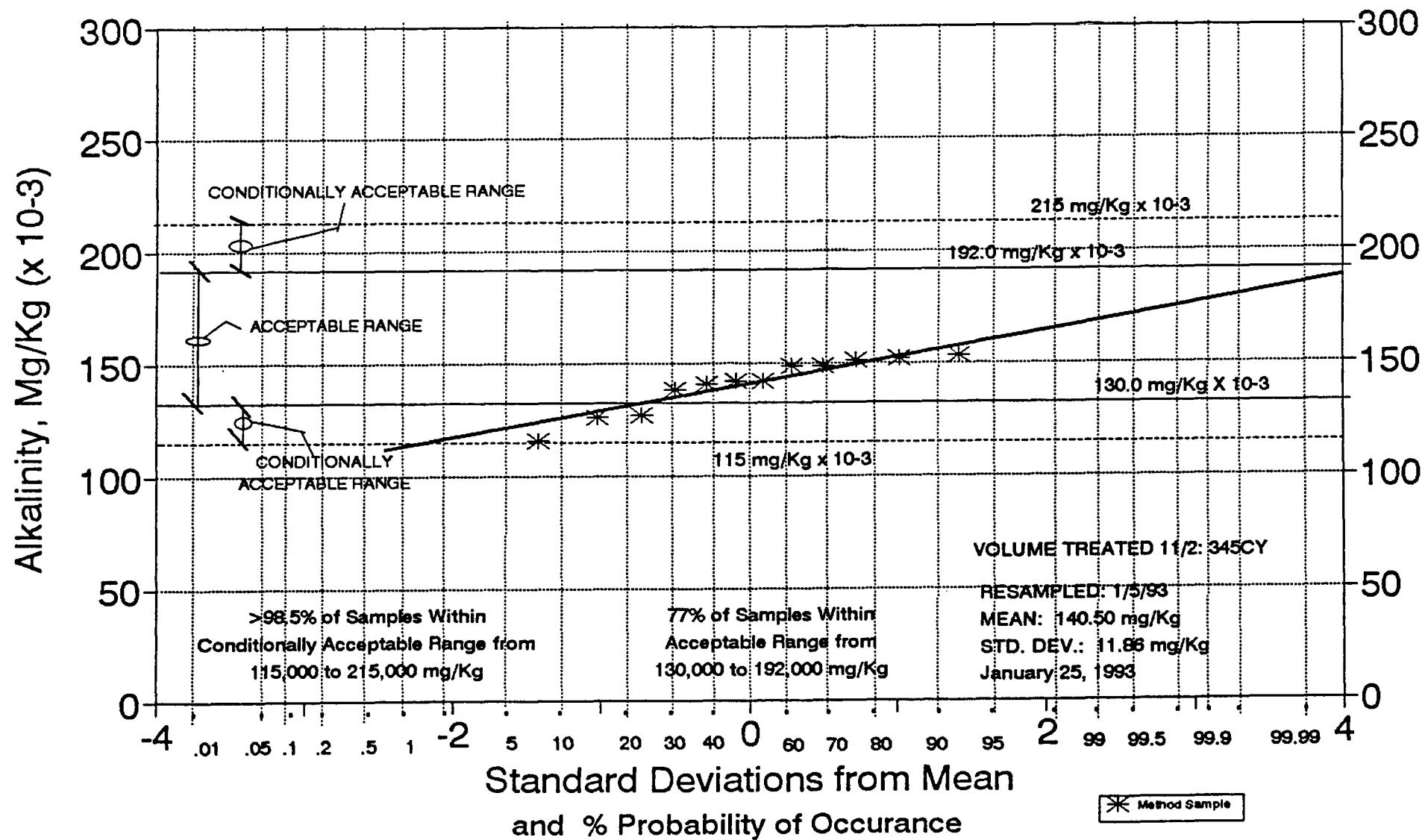


Figure 48
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells D10, D11, D12, D13, and D14: November 16, 1992

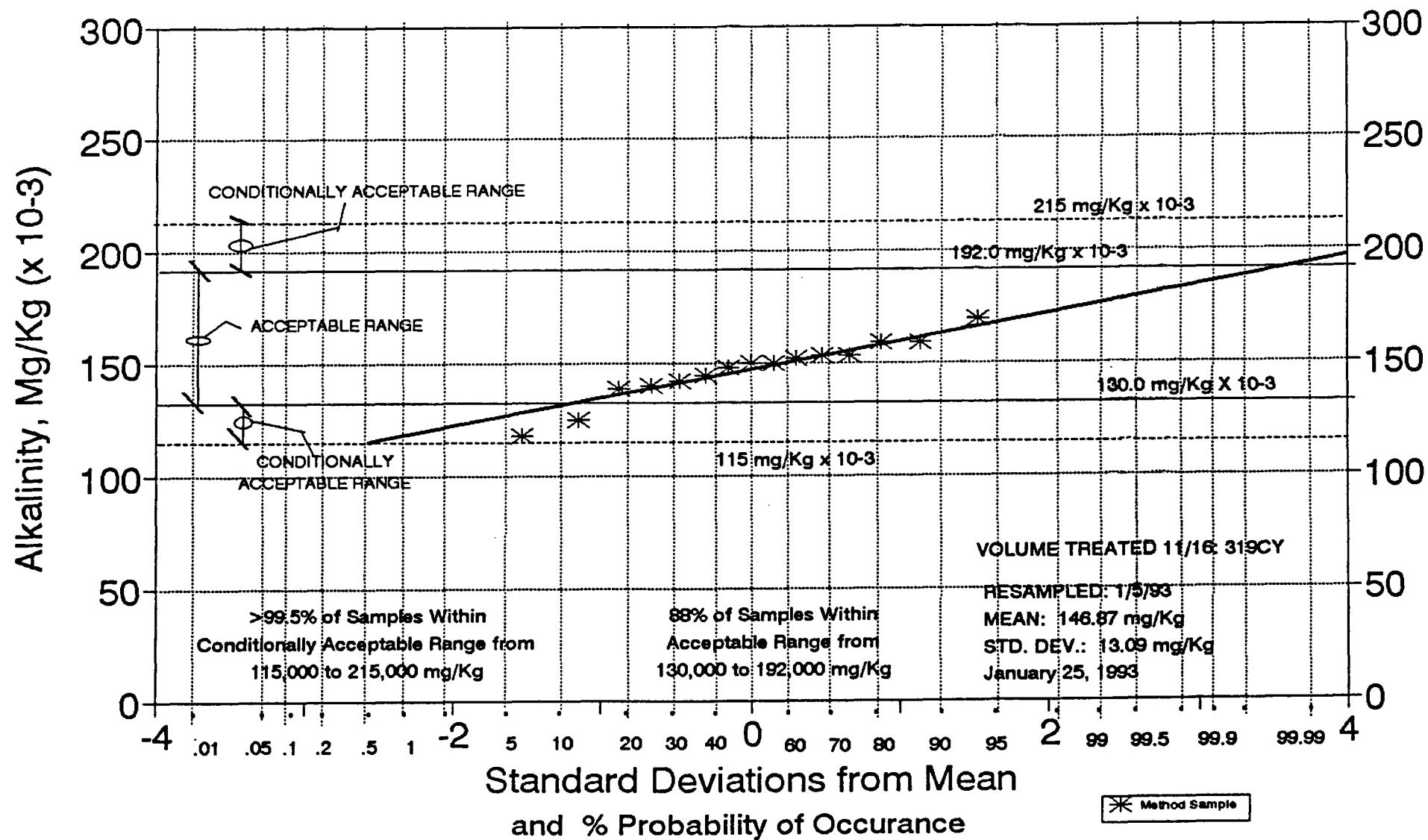


Figure 49
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of

Cell G7: November 30, 1992 Cells H7 and I7: November 25, 1992

Cell J7: November 24 Cell K7: November 23, 1992

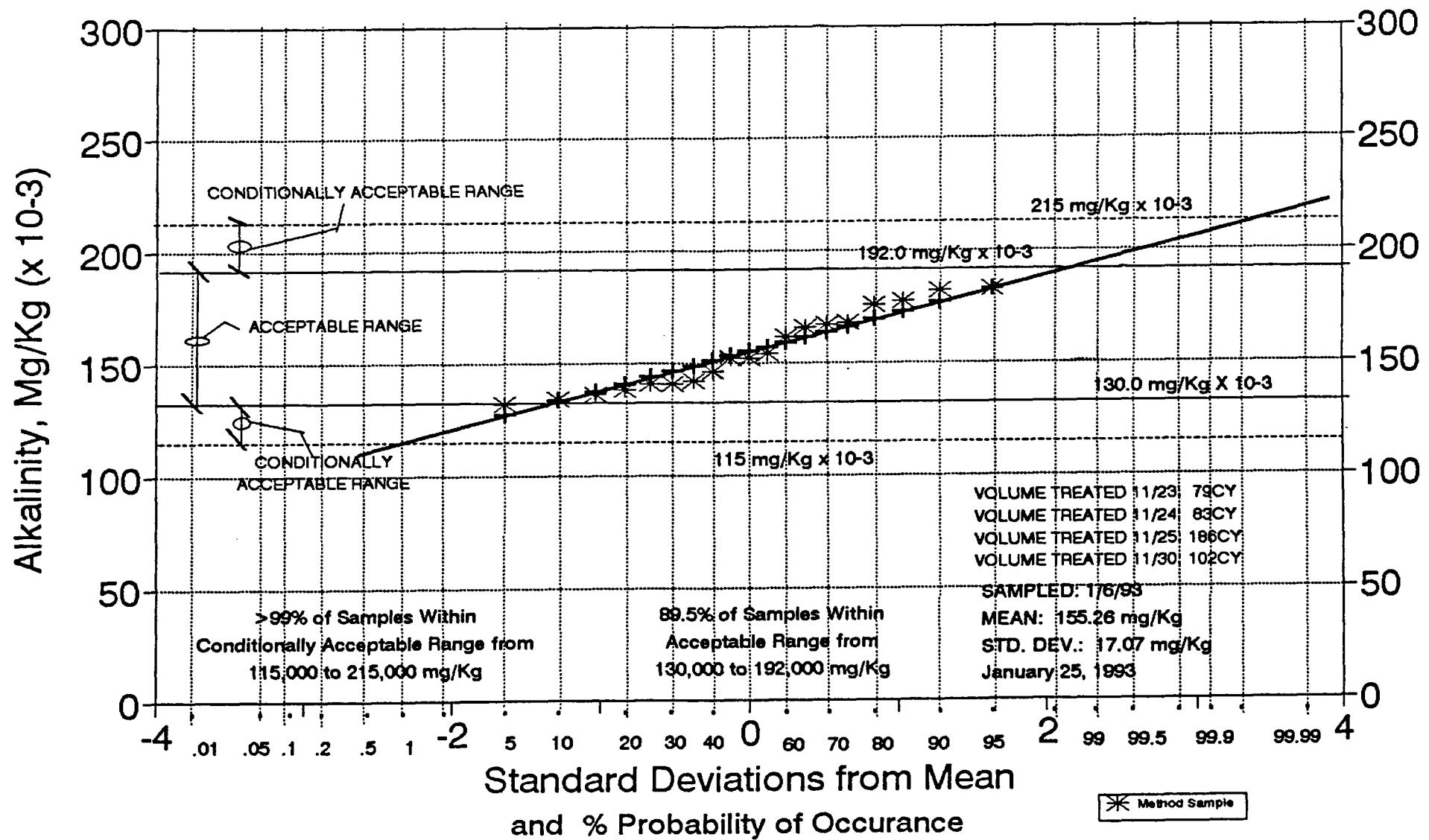


Figure 50
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells C15, C16, C17, C18, and C19: December 16, 1992

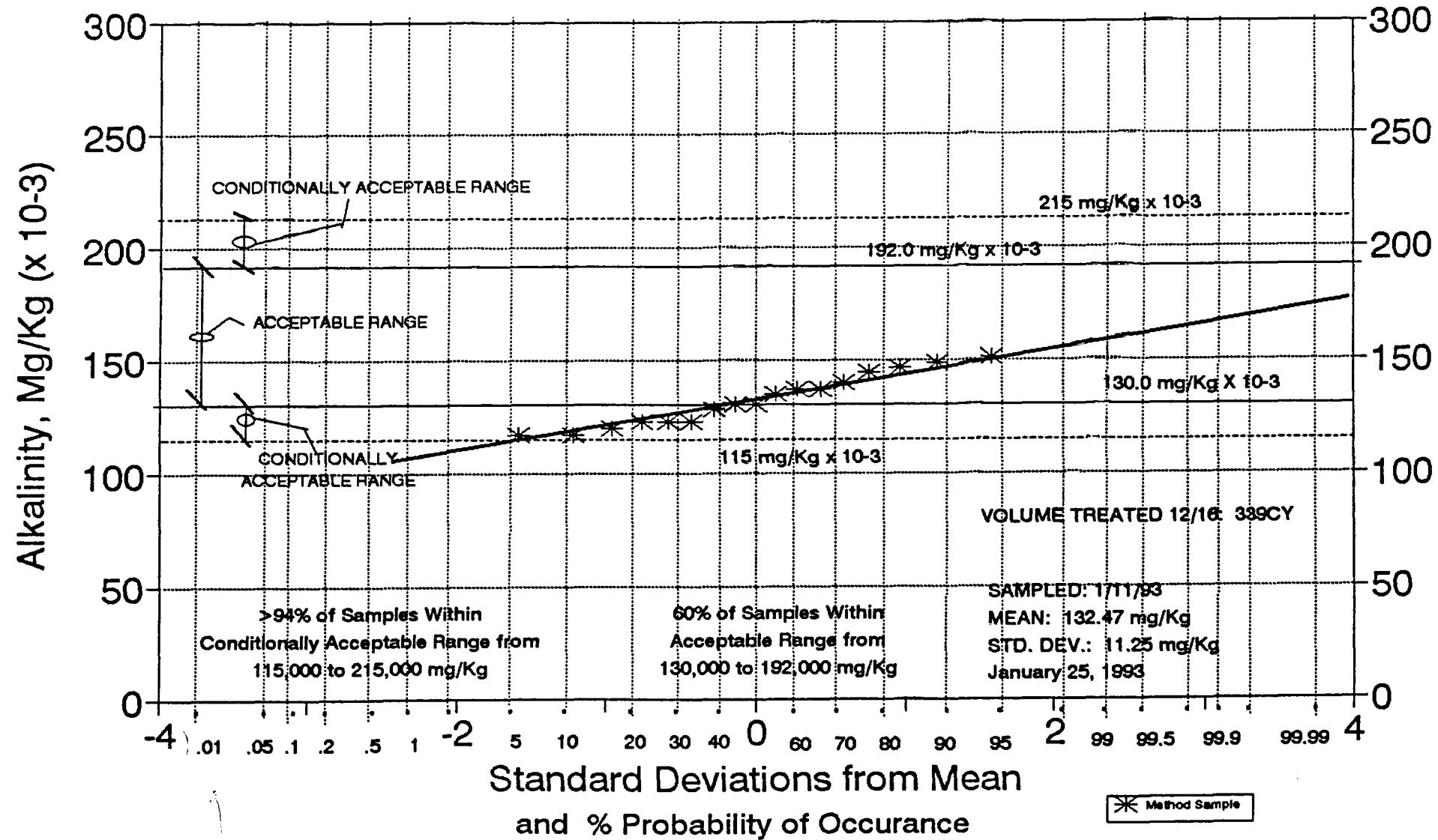


Figure 51
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells M4, N4, O4, P4, and R4: December 23, 1992 Cell L5: December 9, 1992
 Cells M5, N5, O5, P5, and Q5: December 8, 1992

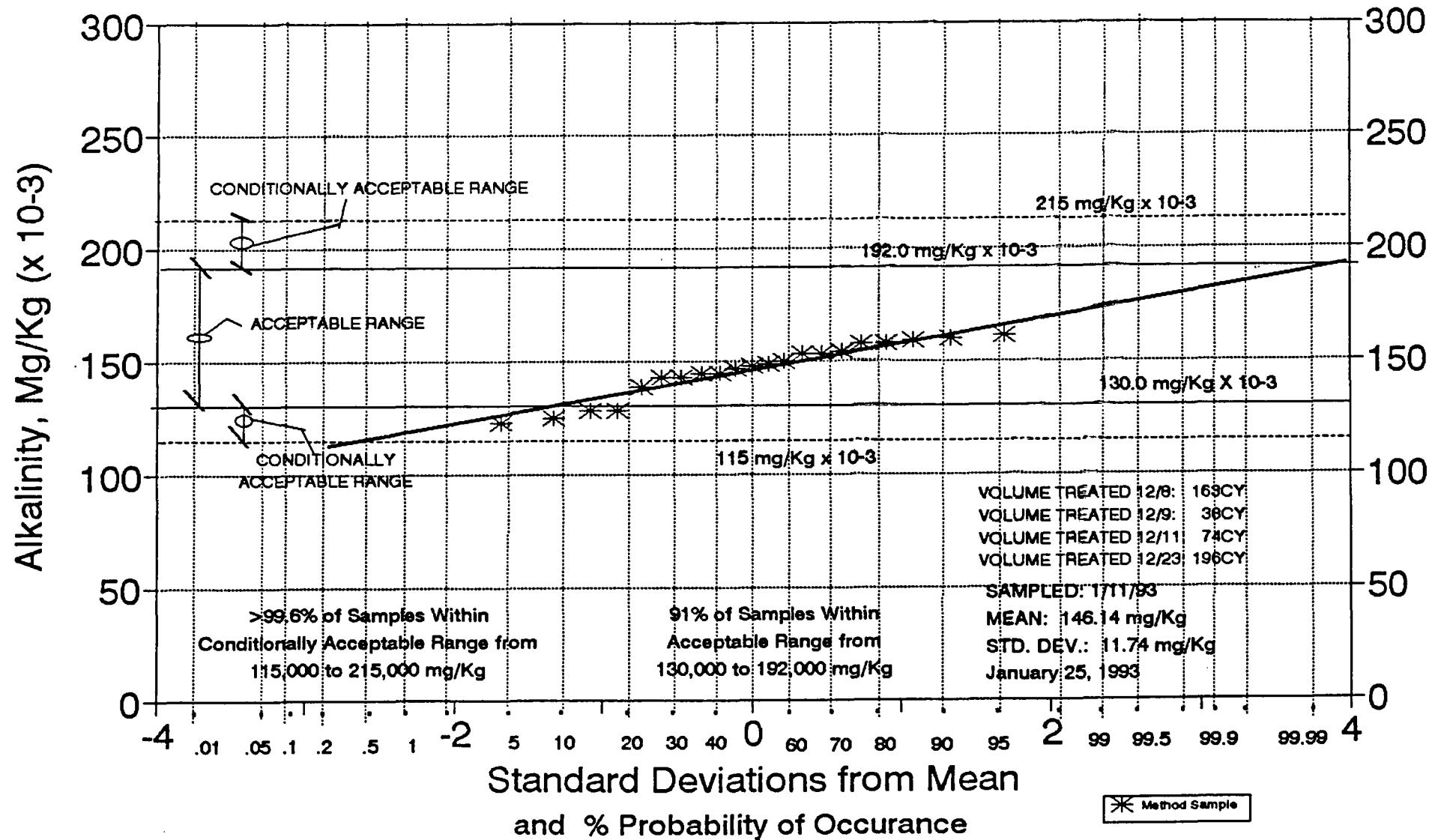


Figure 52
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells G4, G5, and H5: November 23, 1992

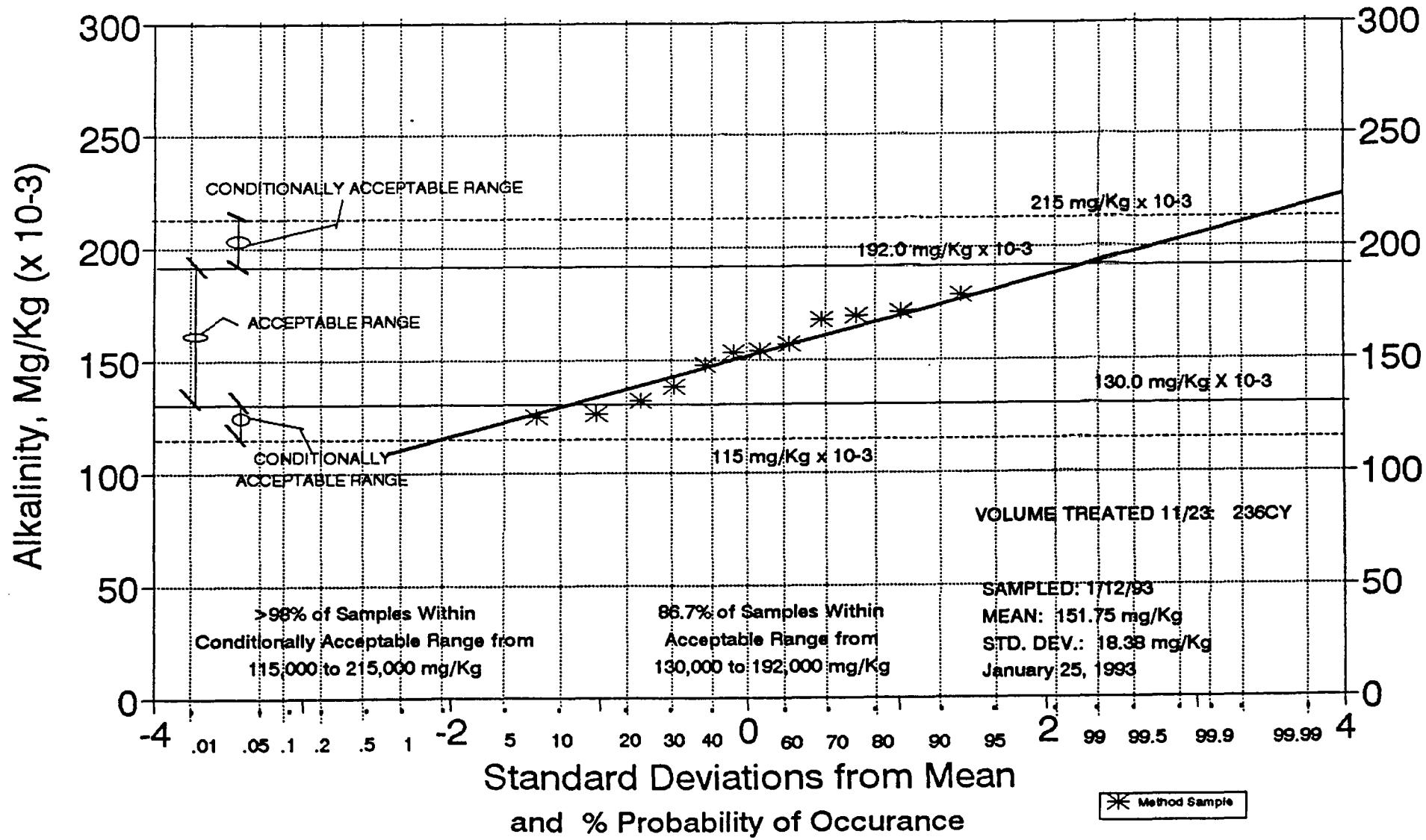


Figure 53
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells C22, C23, C24, C25, and C26: November 2, 1992

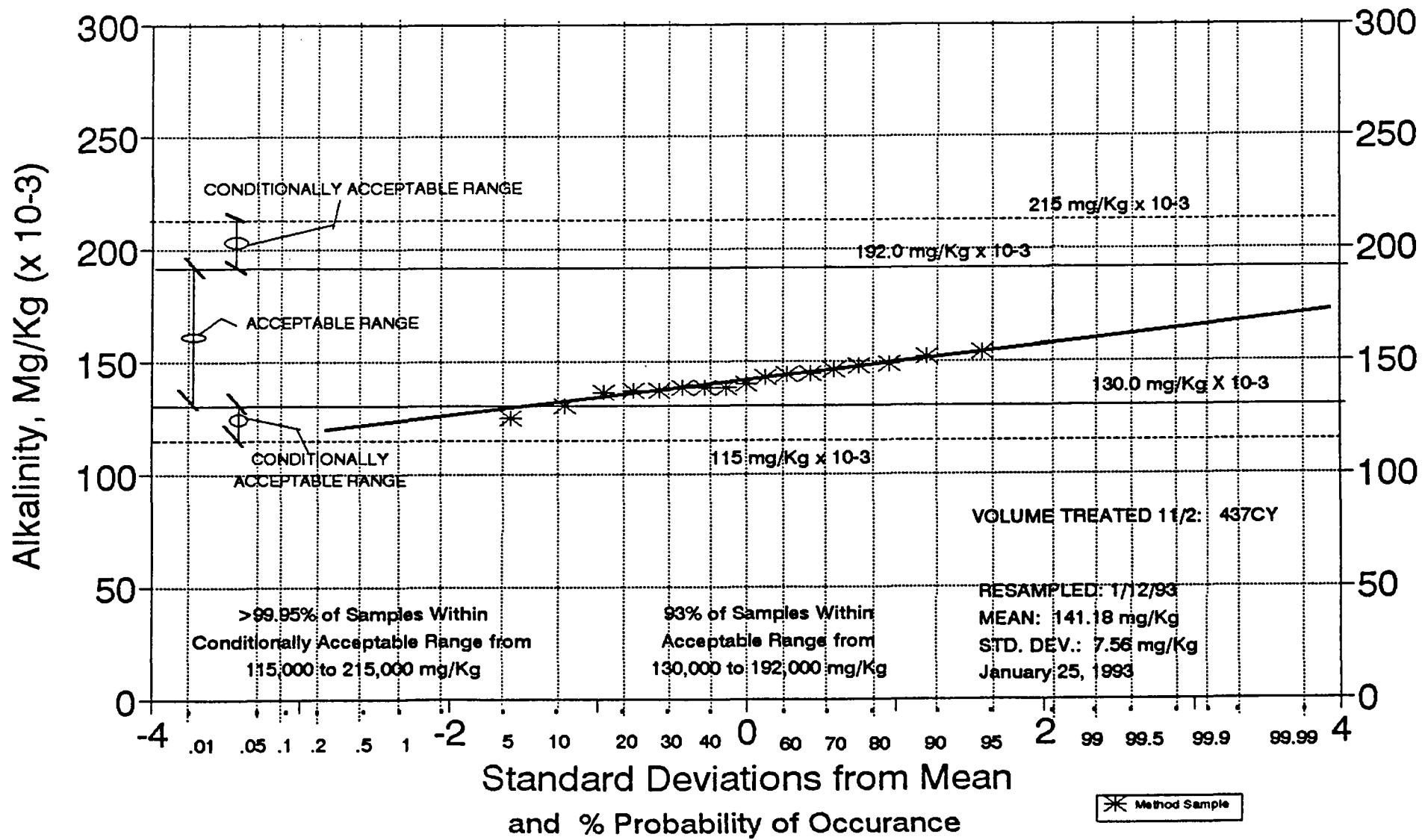


Figure 54
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell G8: November 18, 1992

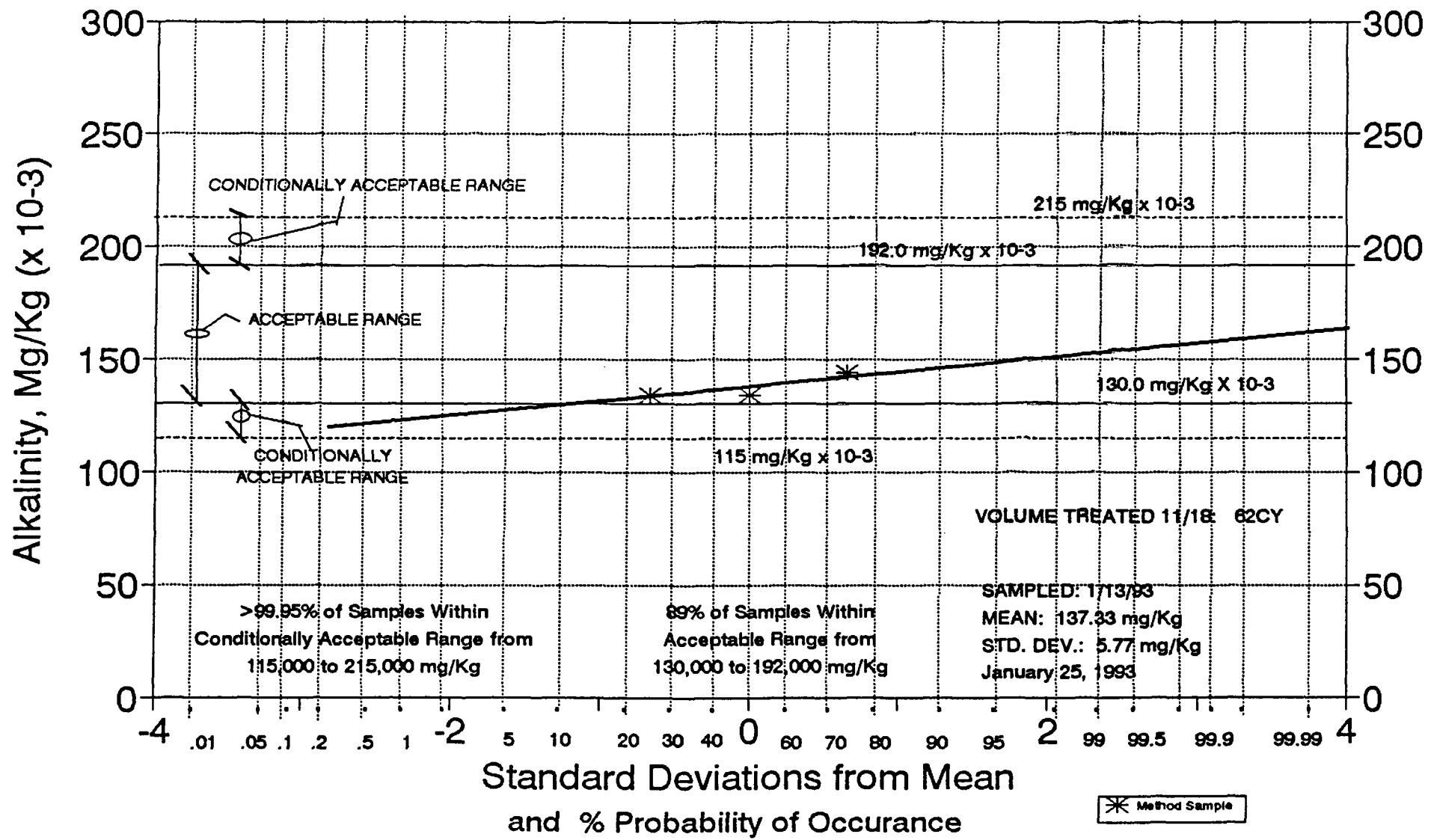


Figure 55
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell J5: December 11, 1992 Cell K5: December 7, 1992

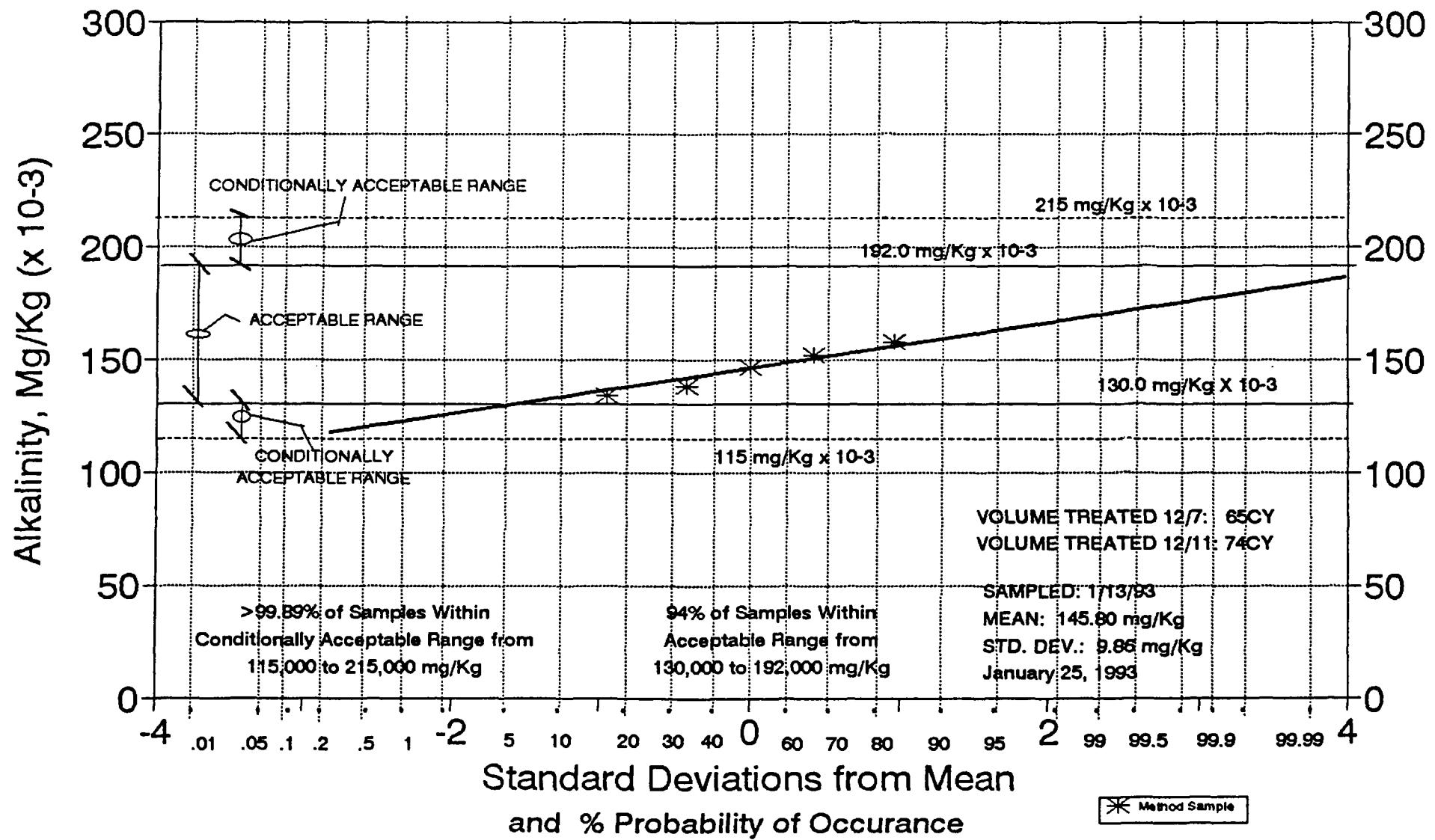


Figure 56
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell J32: November 3, 1992 Cells K32, L32, and M32: October 31, 1992
 Cells N32 and O32: October 30, 1992

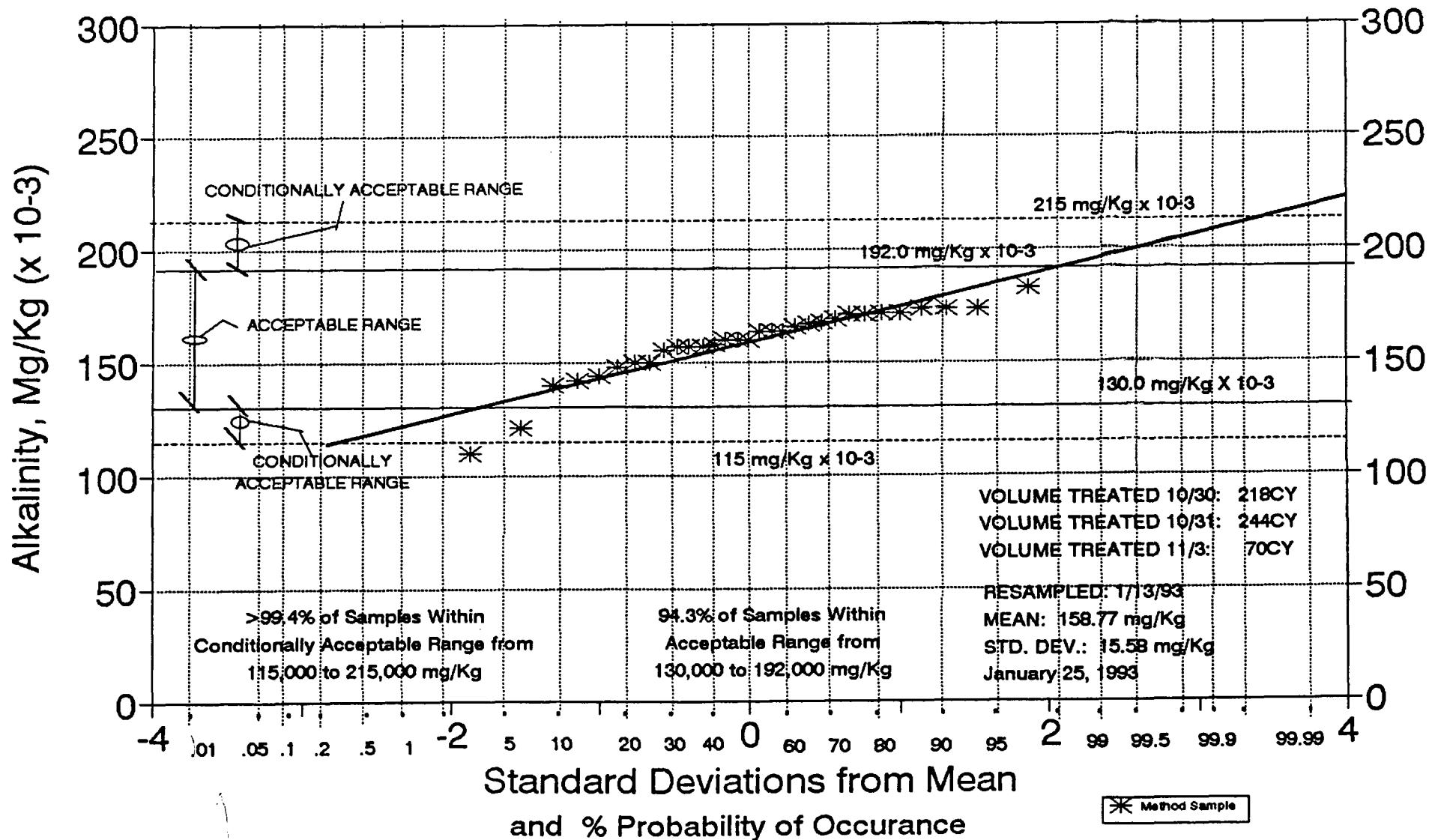


Figure 57
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell E4 and F4 : December 23, 1992 Cells E5: January 5, 1992

Cell F5: November 30, 1992

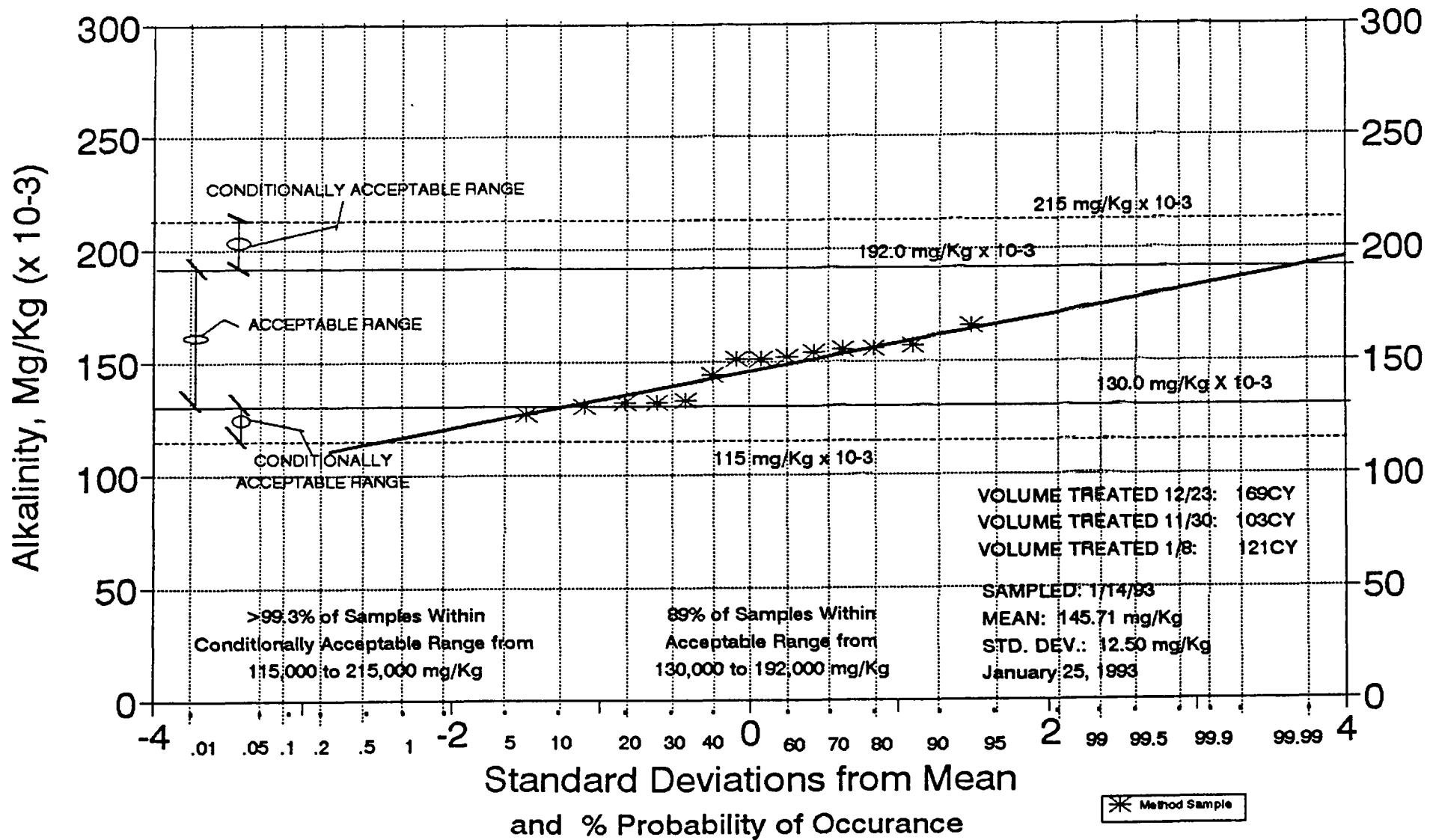


Figure 58
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell Q32: October 30, 1992

Cells O33 and O34 : December 16, 1992 Cells P33 and P34: December 17, 1992

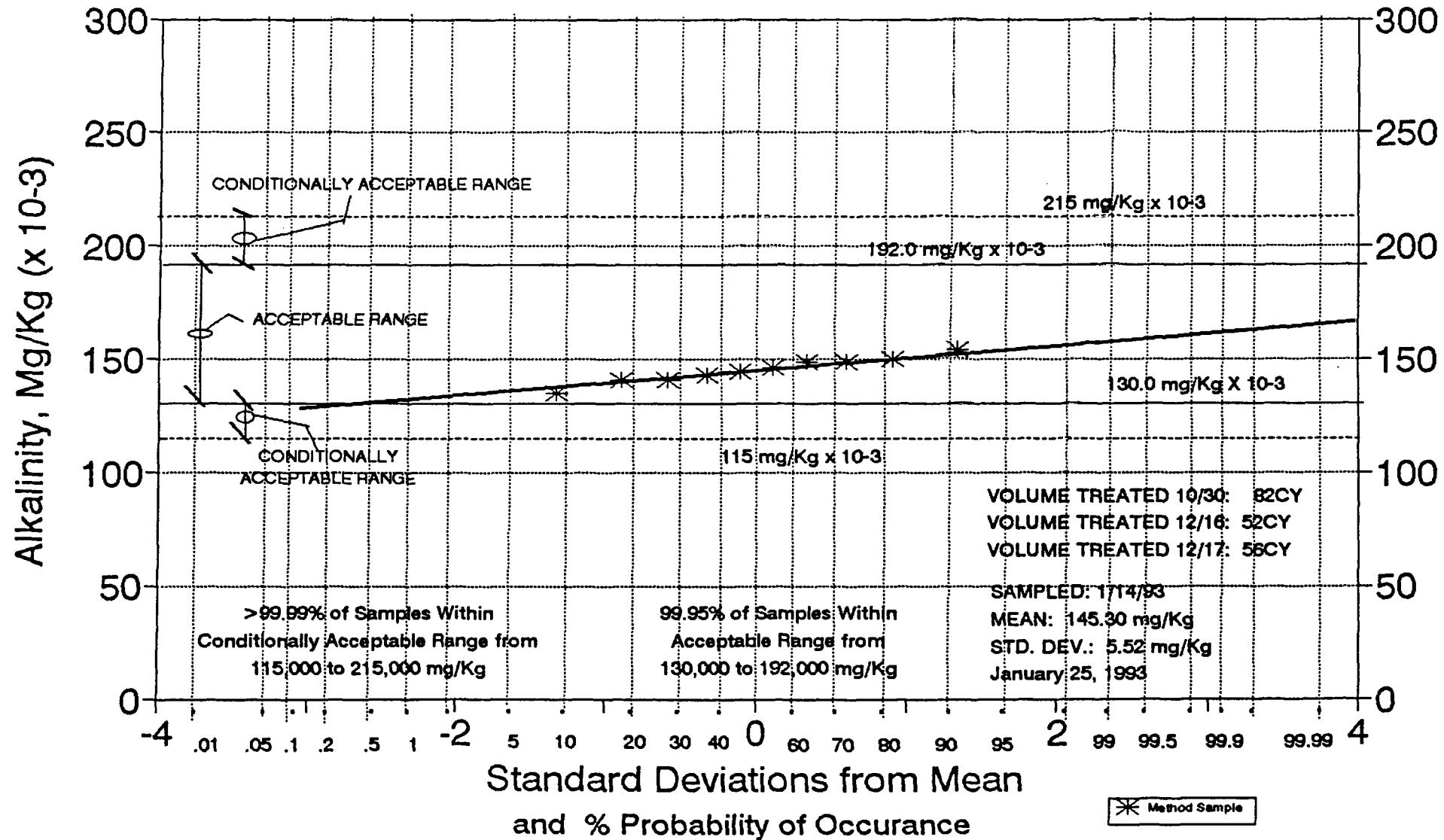


Figure 59
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell D42: November 30, 1992 Cells D5, E5, E6, E7, and E8: January 8, 1993

Cell D6: January 11, 1993 Cells D7 and D8: January 14, 1992

Cell F6: November 30, 1992

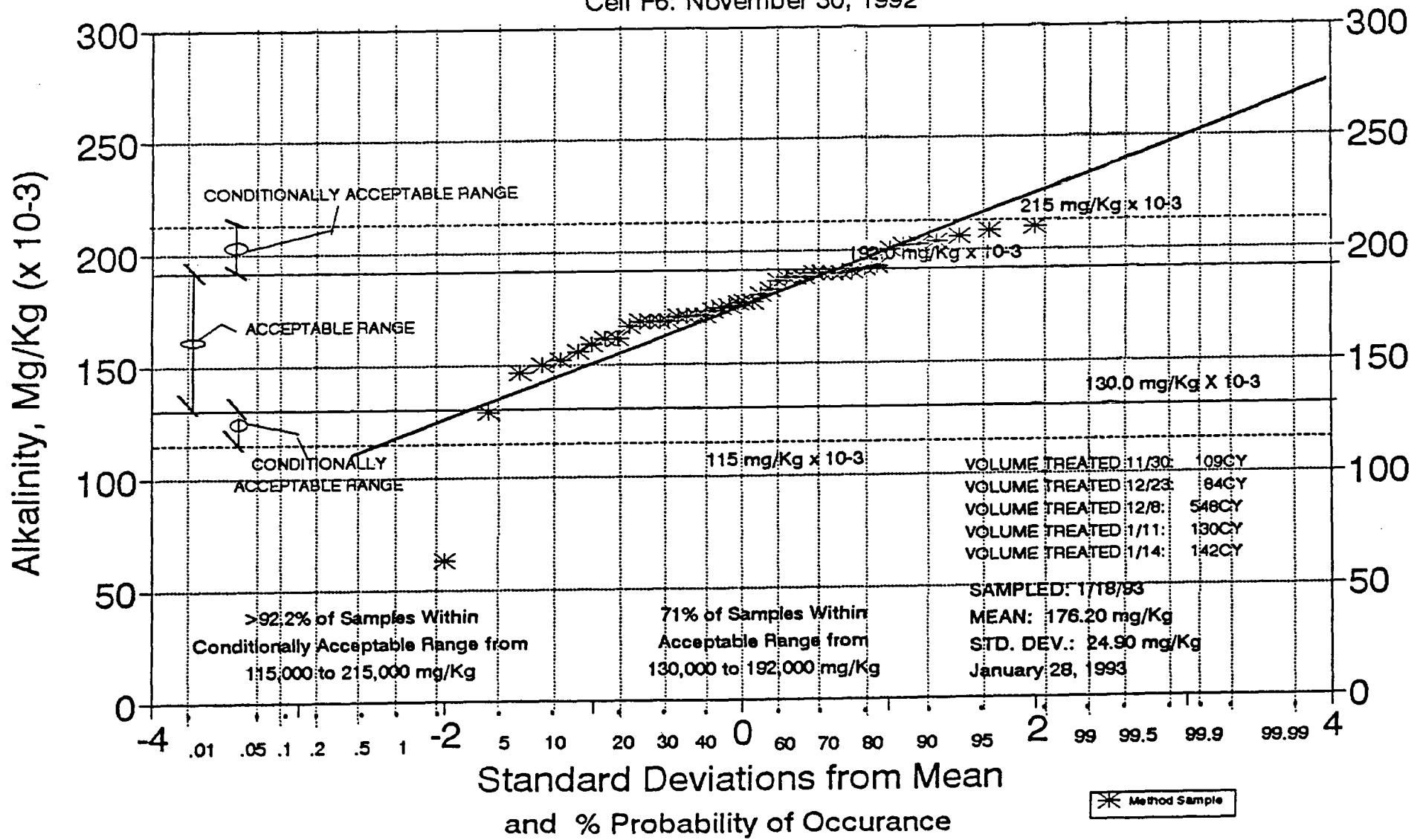


Figure 60
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells E7, F7, and E8: January 8, 1993 Cell F8: December 4, 1992

Cells G8, G9, and H9: December 4, 1992 (Resampled)

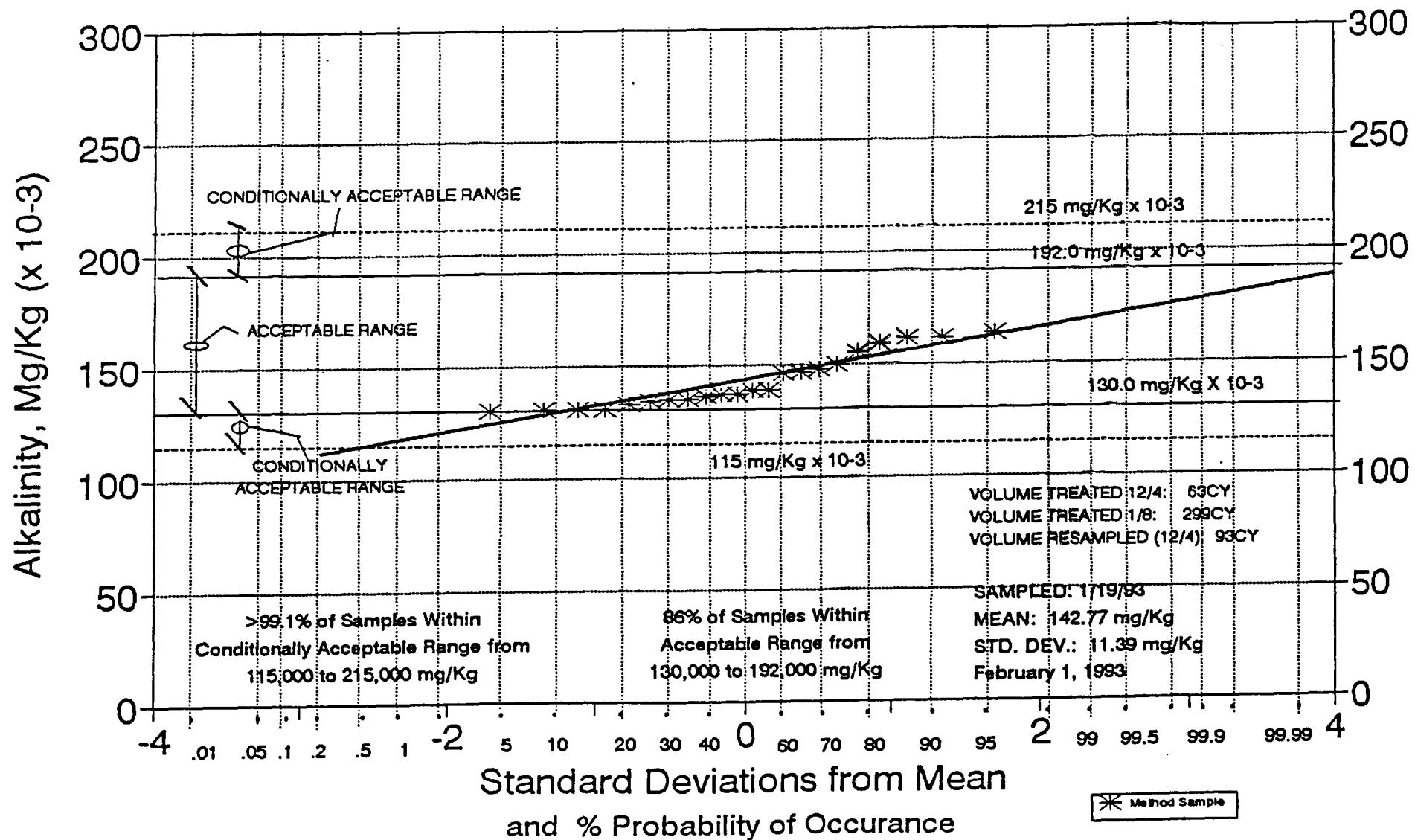


Figure 61
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells B14, B15, B16, B17, B18, and B19: December 17, 1992 Cells B21, B22, B23, B24, B25, B26, and B27: December 14, 1992
 Cells B10, B11, B12, and B13: December 17, 1992 (Resampled) Cells C11, C12, C13, and C14: December 16, 1992 (Resampled)
 Cells B28, B29, and B30: December 14, 1992 (Resampled)

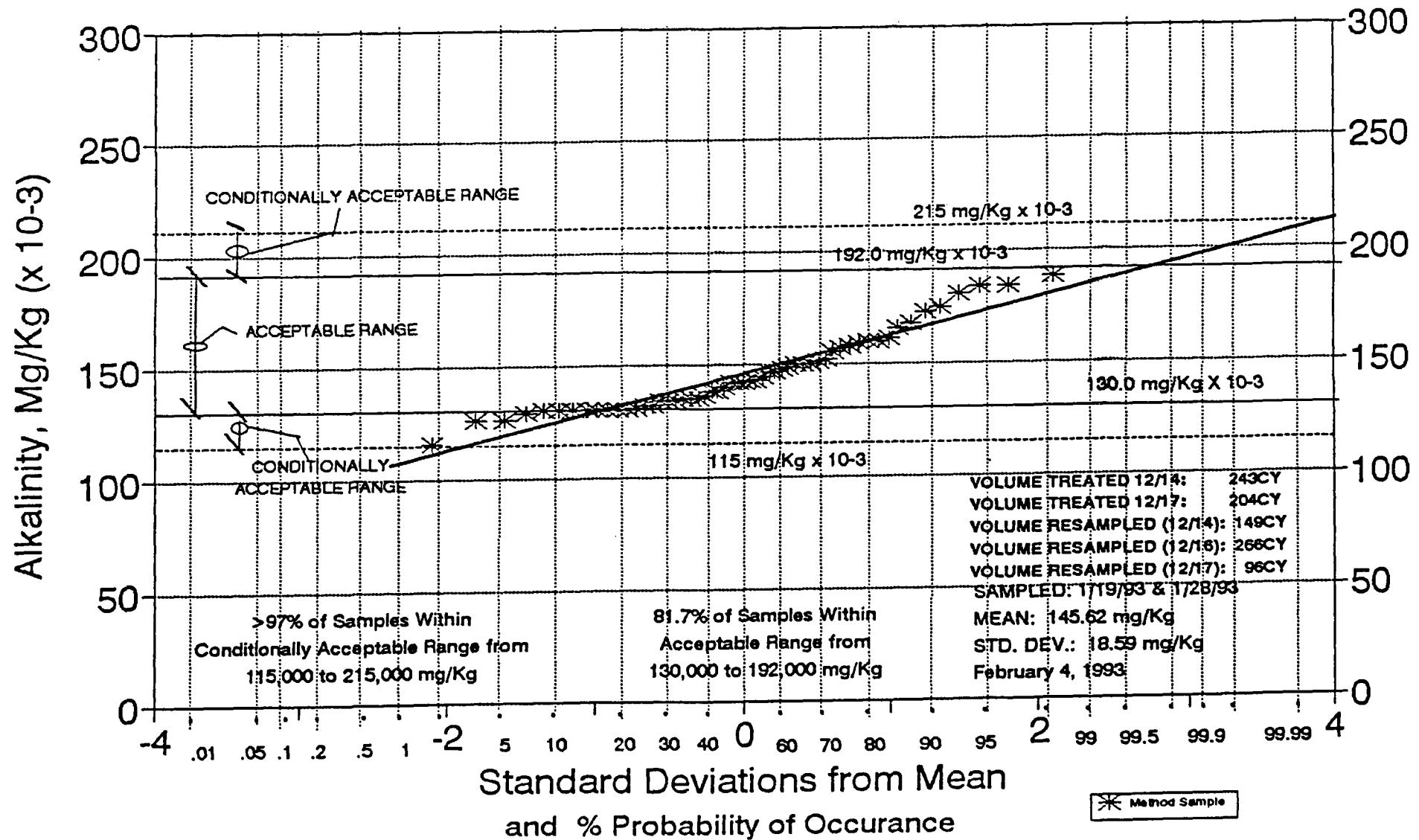


Figure 62
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of

Cells C32, D32, and E32: December 16, 1992 (Resampled)

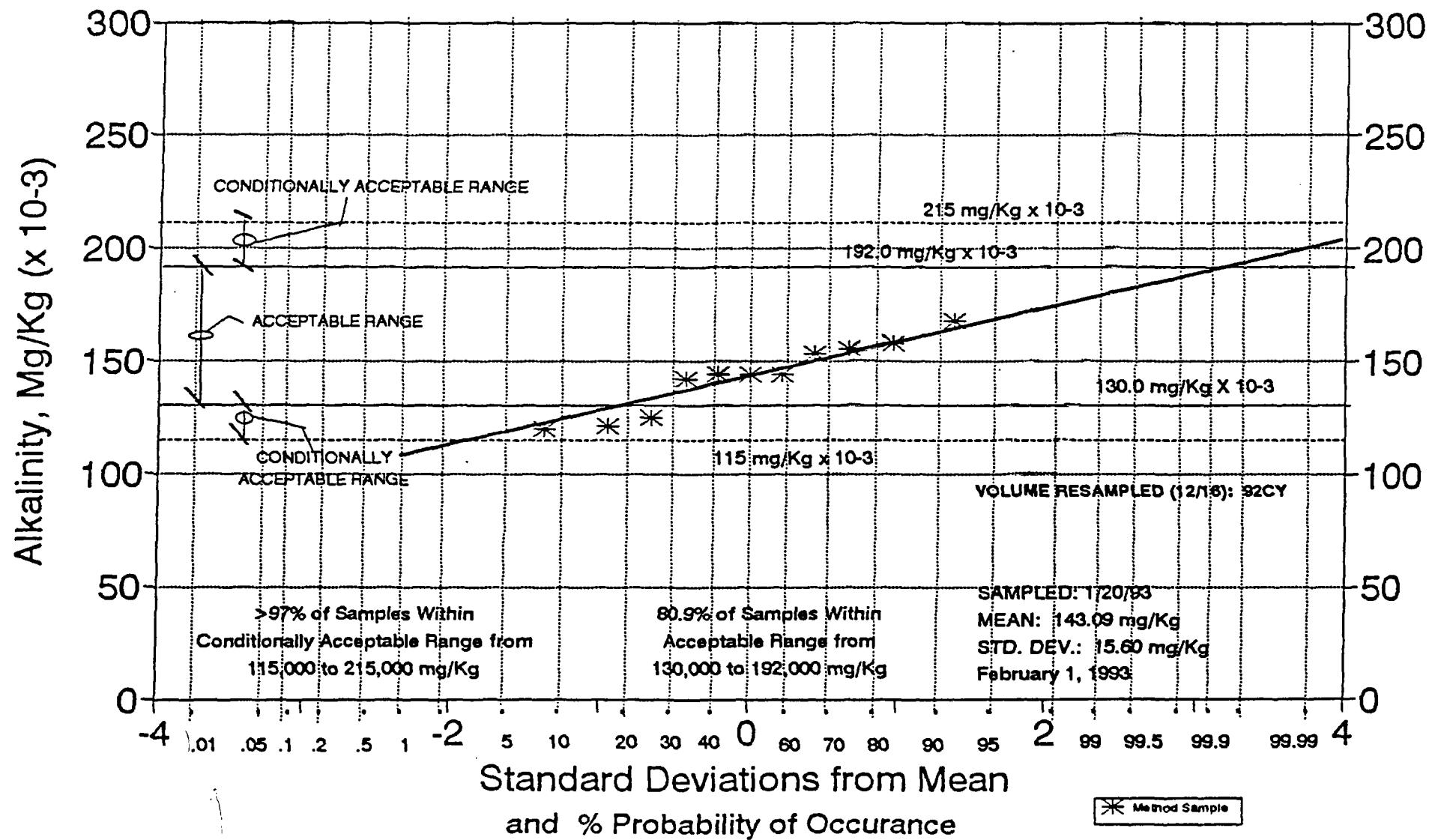


Figure 63
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of

Cells H32, I32, I33, J33, L33, and M33: December 16, 1992

Cell K33: December 16, 1992 (Resampled)

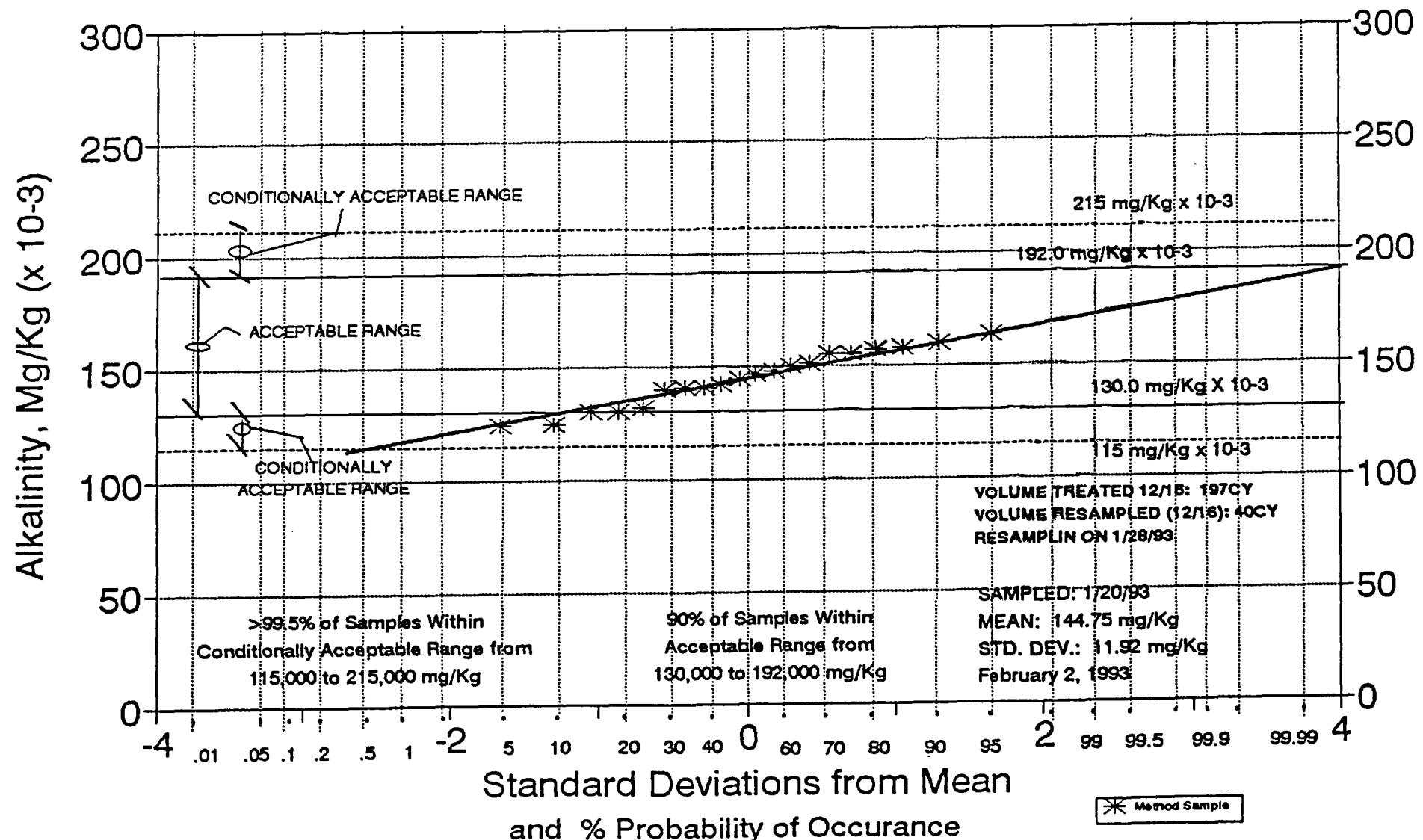


Figure 64
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells J3, K3, K4, L4, and M4: December 23, 1992 Cells I4, and I5: November 23, 1992
 Cell J4: December 11, 1992

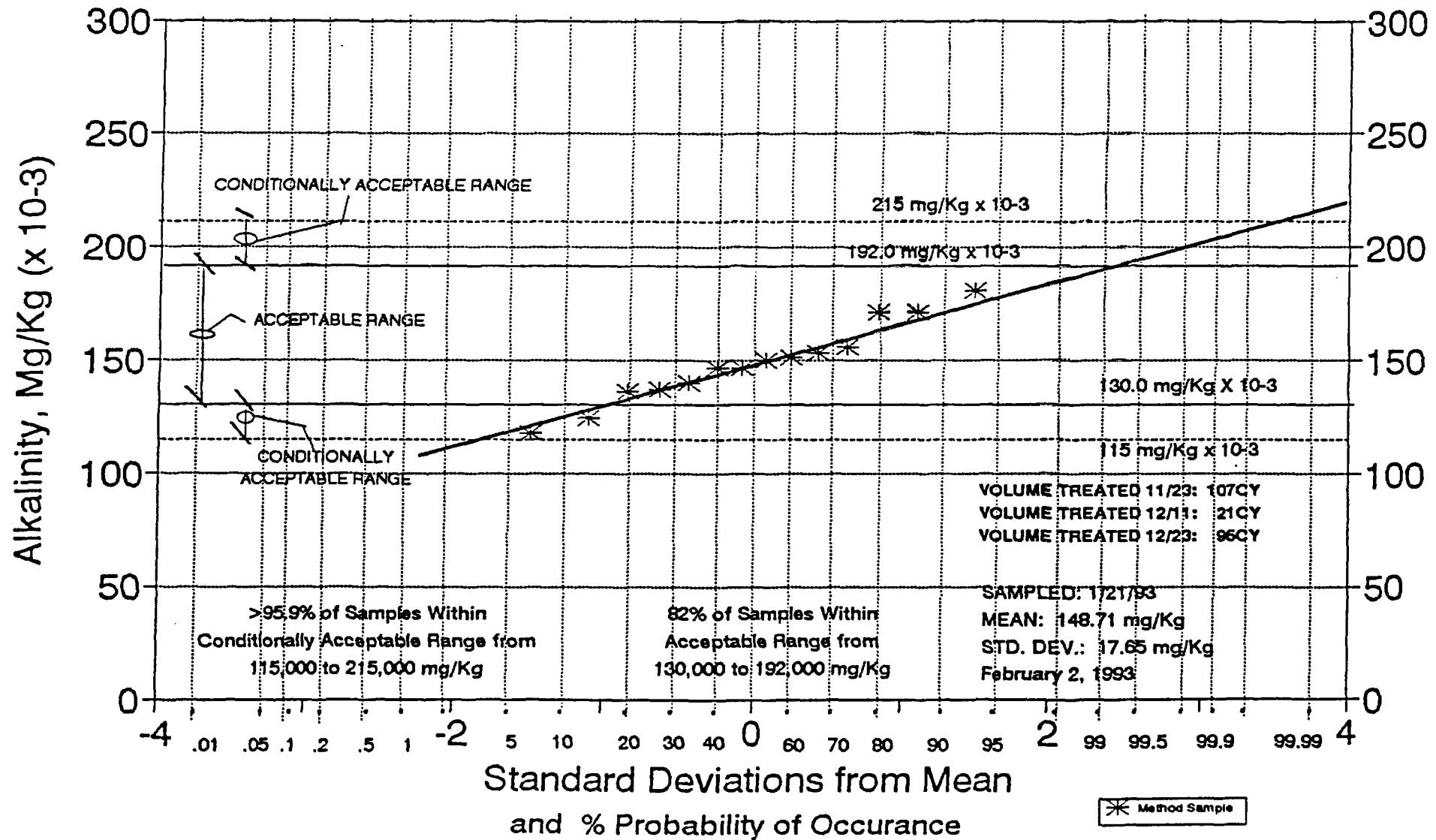


Figure 65
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells J3, K3, K4, L4, and M4: December 23, 1992 Cells I4, and I5: November 23, 1992
 Cell J4: December 11, 1992

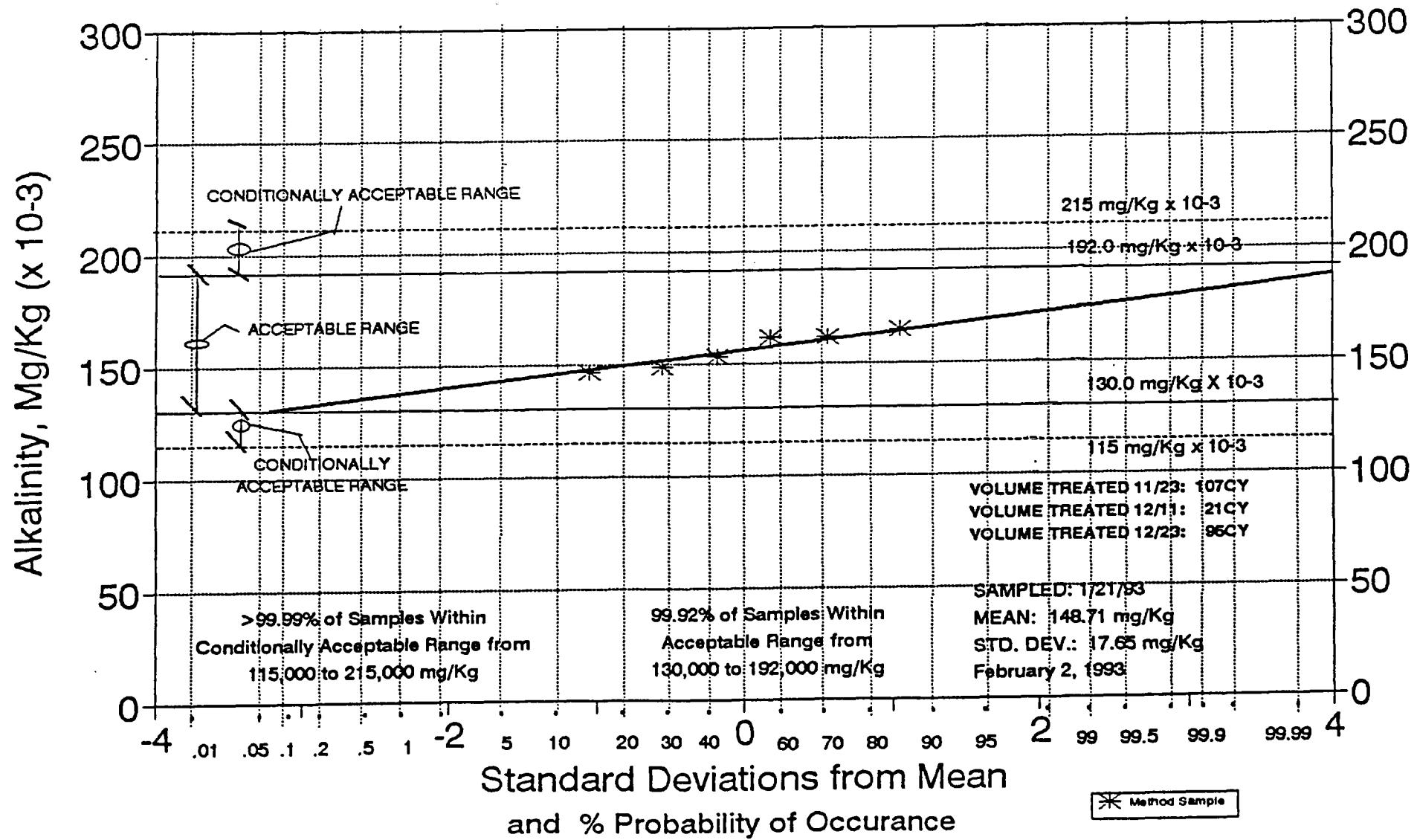


Figure 66
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell R32: January 16, 1993 Cells S32, Q33, R33, S33, and R34: December 17, 1992

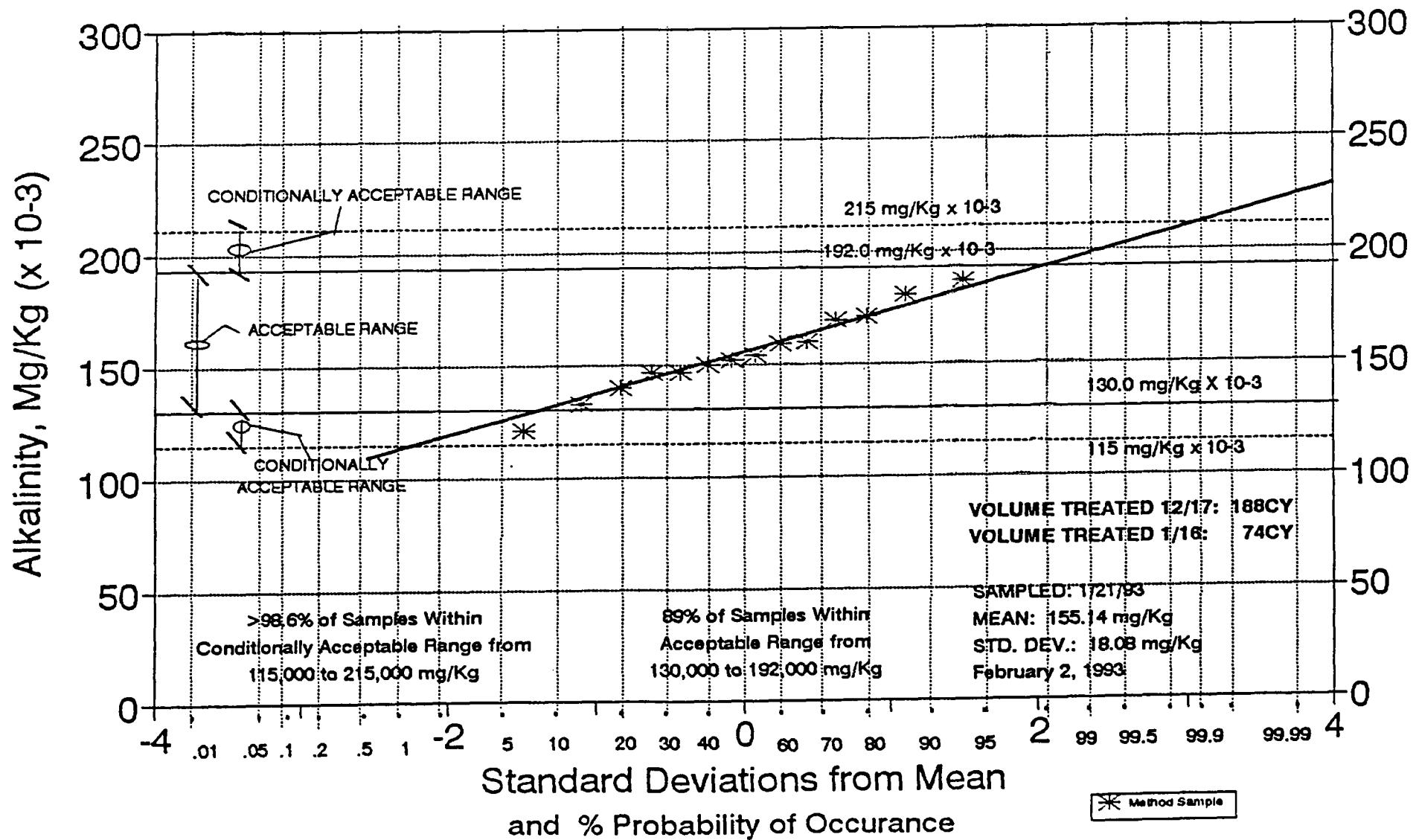


Figure 67
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell O4, P4, Q4, and R4: December 23, 1992 (Resampled)

Cells N5, O5, P5, and Q5: December 8, 1992 (Resampled)

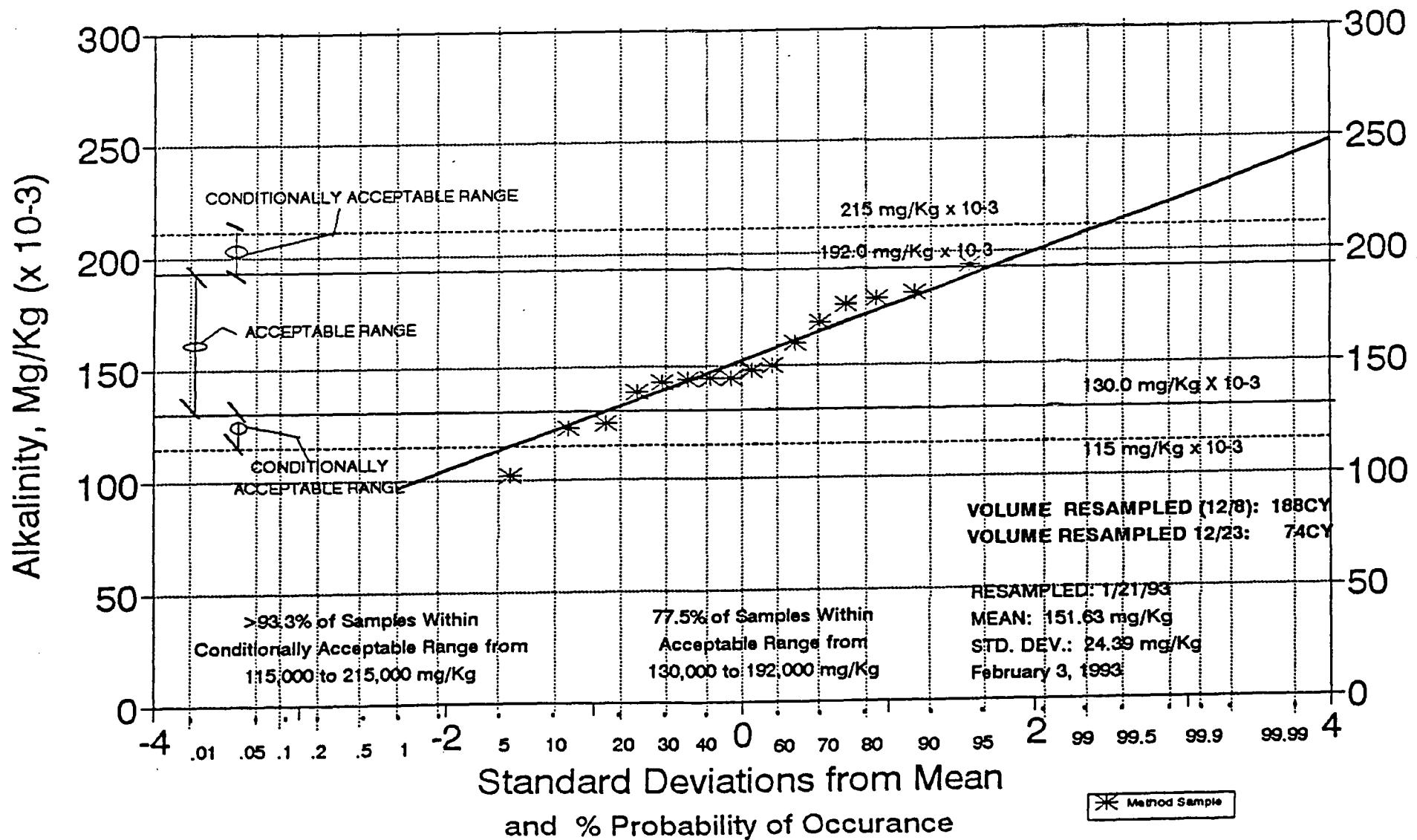


Figure 68
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells D31 and E31: December 9, 1992 (Additional Sampling) Cell F31: November 5, 1992 (Additional Sampling)

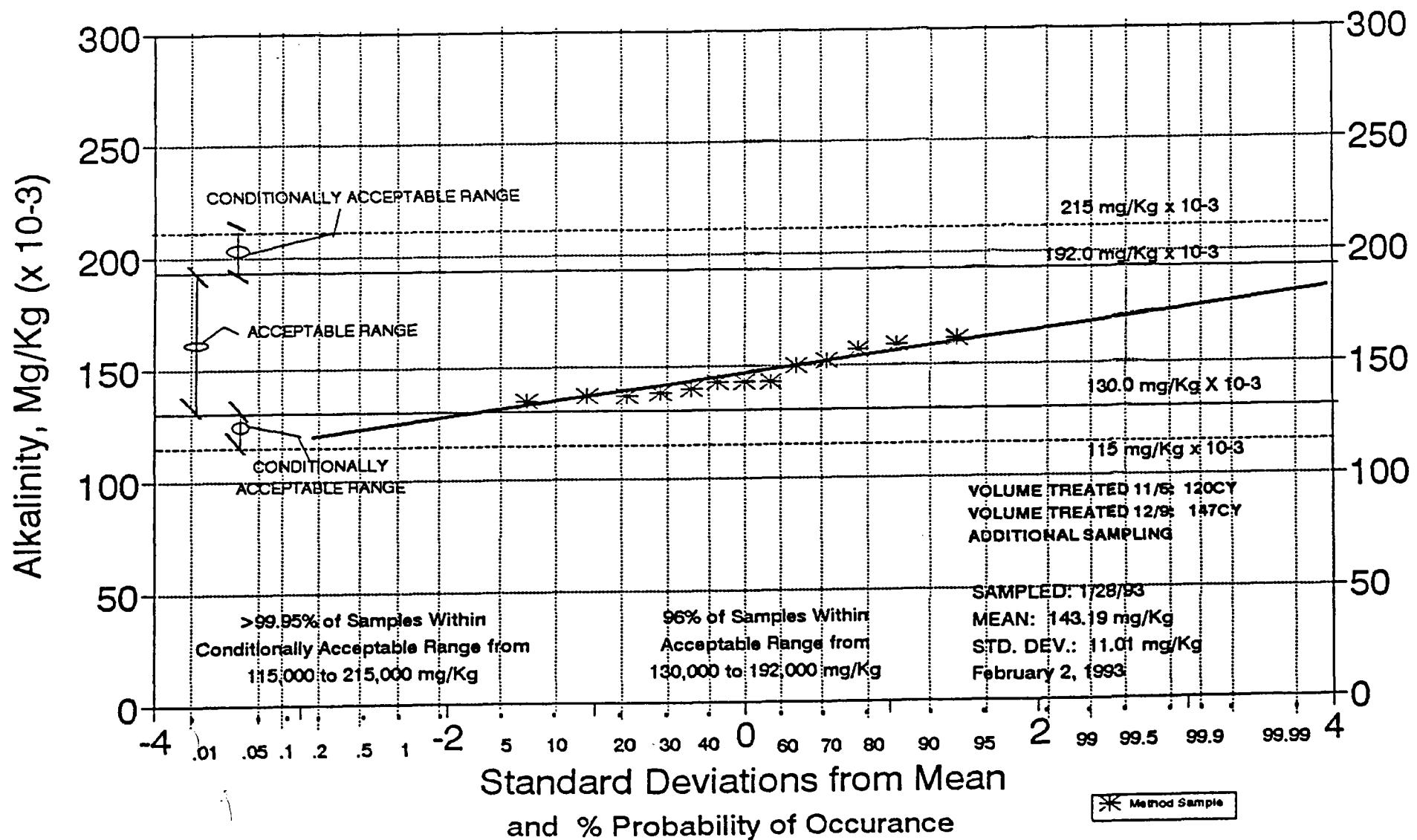


Figure 69
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cell J32: November 3, 1992 (Resampled) Cells K32 and L32: October 31, 1992 (Resampled)

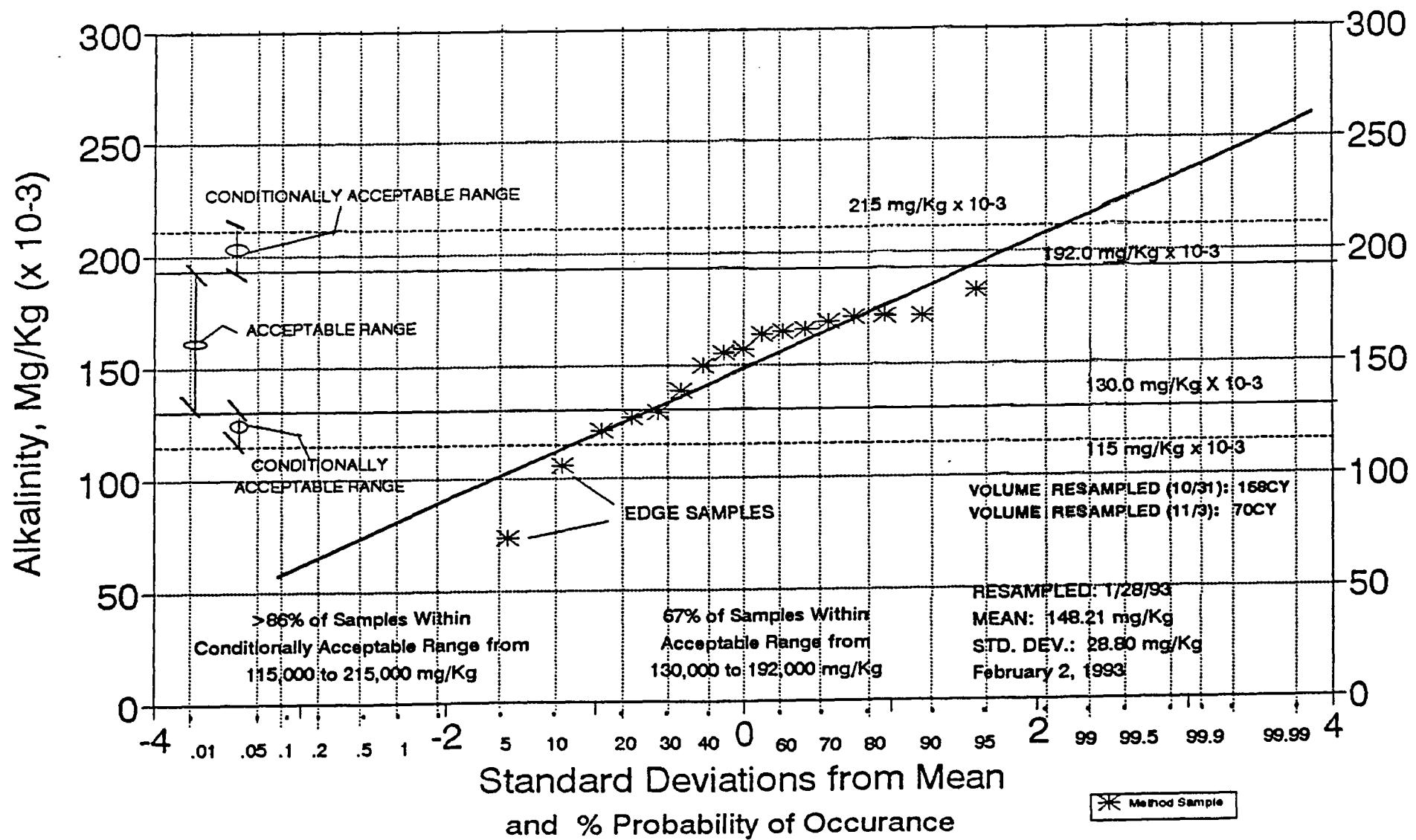


Figure 70
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells B14, B15, and B16: December 17, 1992 (Resampled) Cells B21 and B22: December 14, 1992 (Resampled)

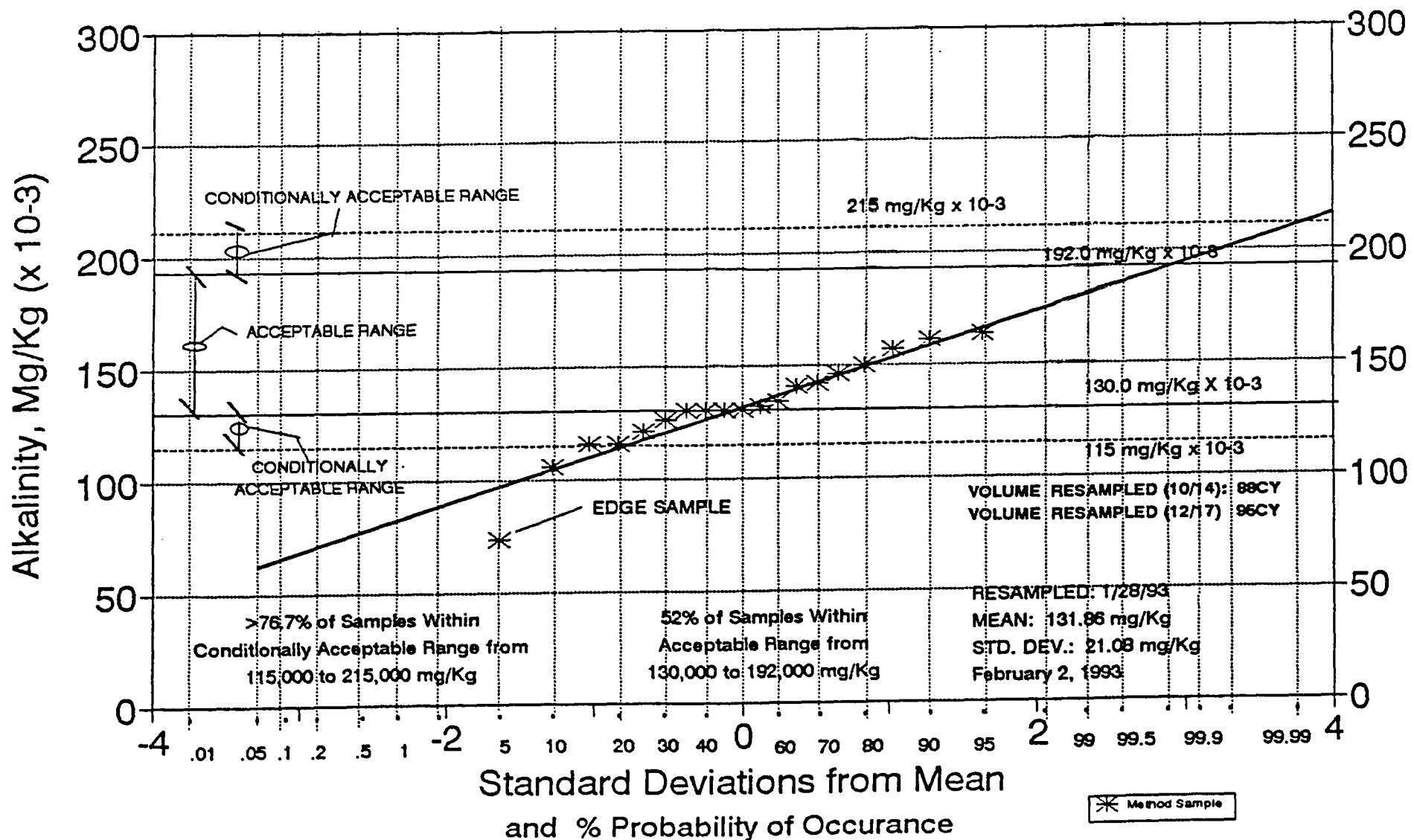


Figure 71
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells F32, G32, G33, and H33: December 16, 1992 (Resampled)

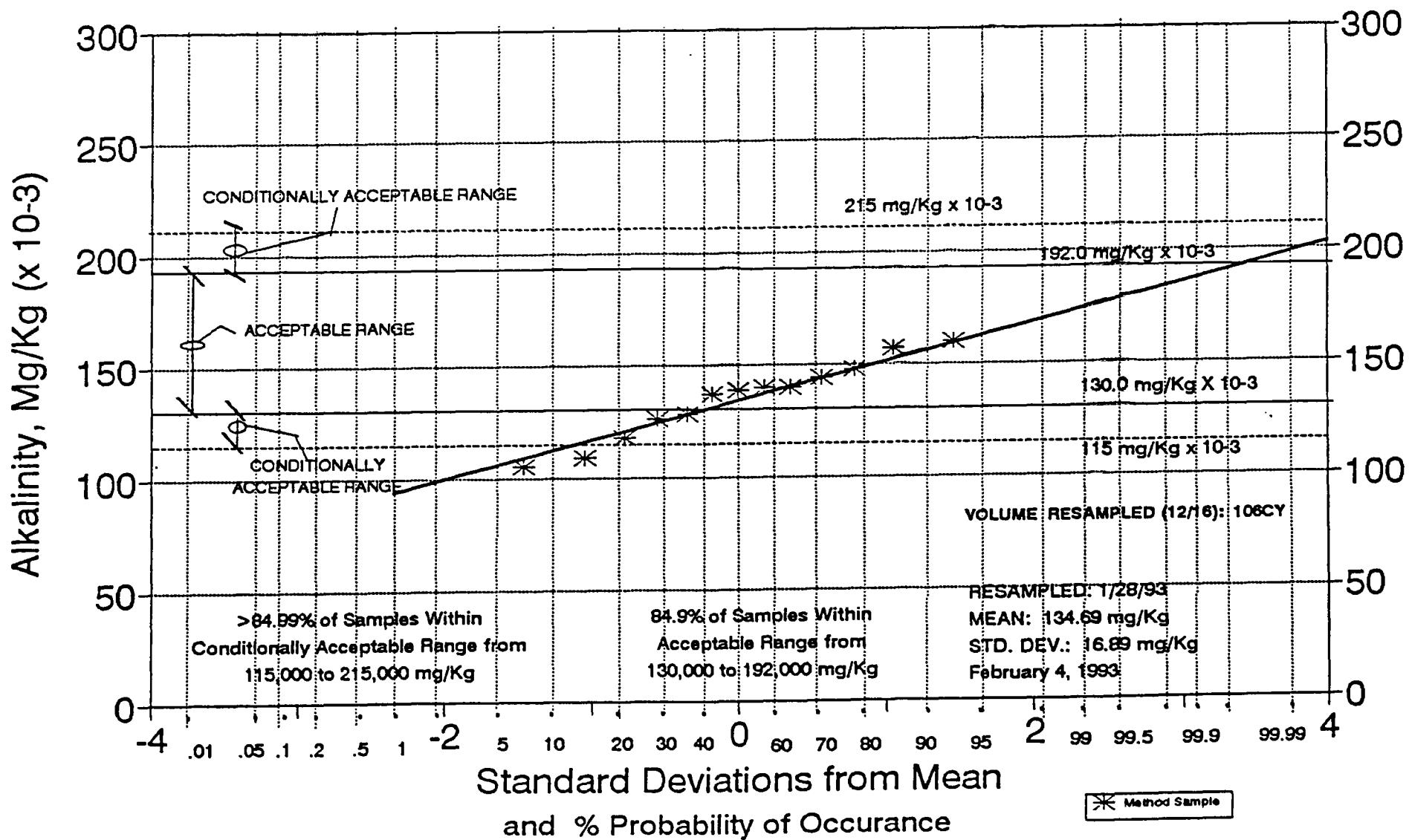


Figure 72
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of

Cells G4, H4, I4, and I5: November 23, 1992 (Resampled) Cell J4: December 11, 1992 (Resampled)
 Cells J3, K3, K4, L4, and M4: December 23, 1992 (Resampled)

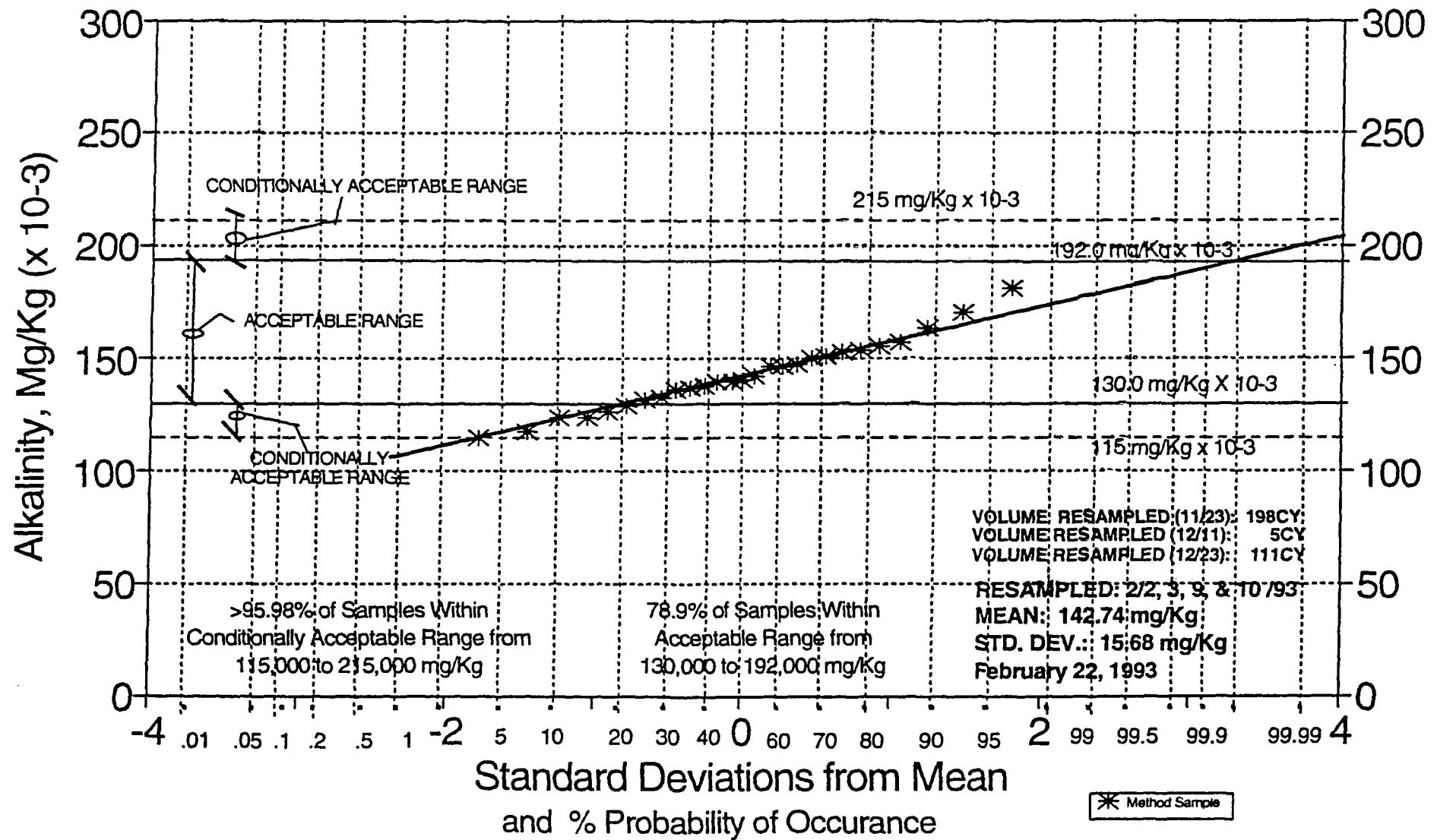


Figure 73
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of

Cell Q25: October 29, 1992 (Resampled) Cells Q30, R28, R29, and R30: October 13, 1992 (Resampled)
 Cells O29 and P29: December 4, 1992 (Resampled) Cell Q29: October 29, 1992 (Resampled) Cells S29, S30, and S31: January 27, 1993 (Resampled)
 Cells Q31, Q32, and R31: November 23, 1992 (Resampled) Cell R32: January 22, 1993 (Resampled)
 Cells Q33, Q34, R33, R34, S32, and S33: December 17, 1992 (Resampled)

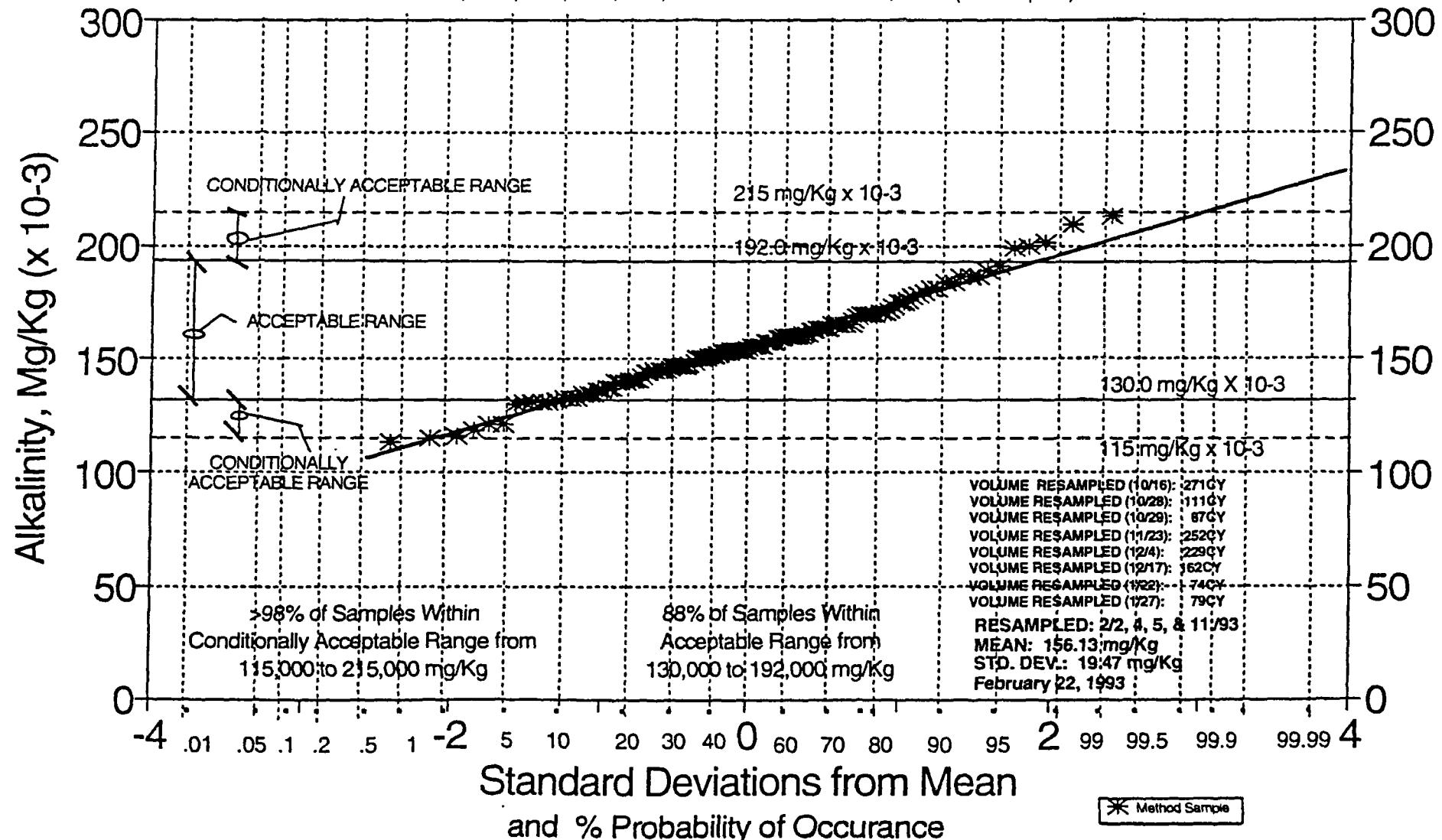


Figure 74
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells O4, P4, Q4, and R4: December 23, 1992 (Resampled) Cells P6 and Q6: December 8, 1992 (Resampled)
 Cell P7: November 23, 1992 (Resampled) Cells Q7 and Q8: December 7, 1992 (Resampled)

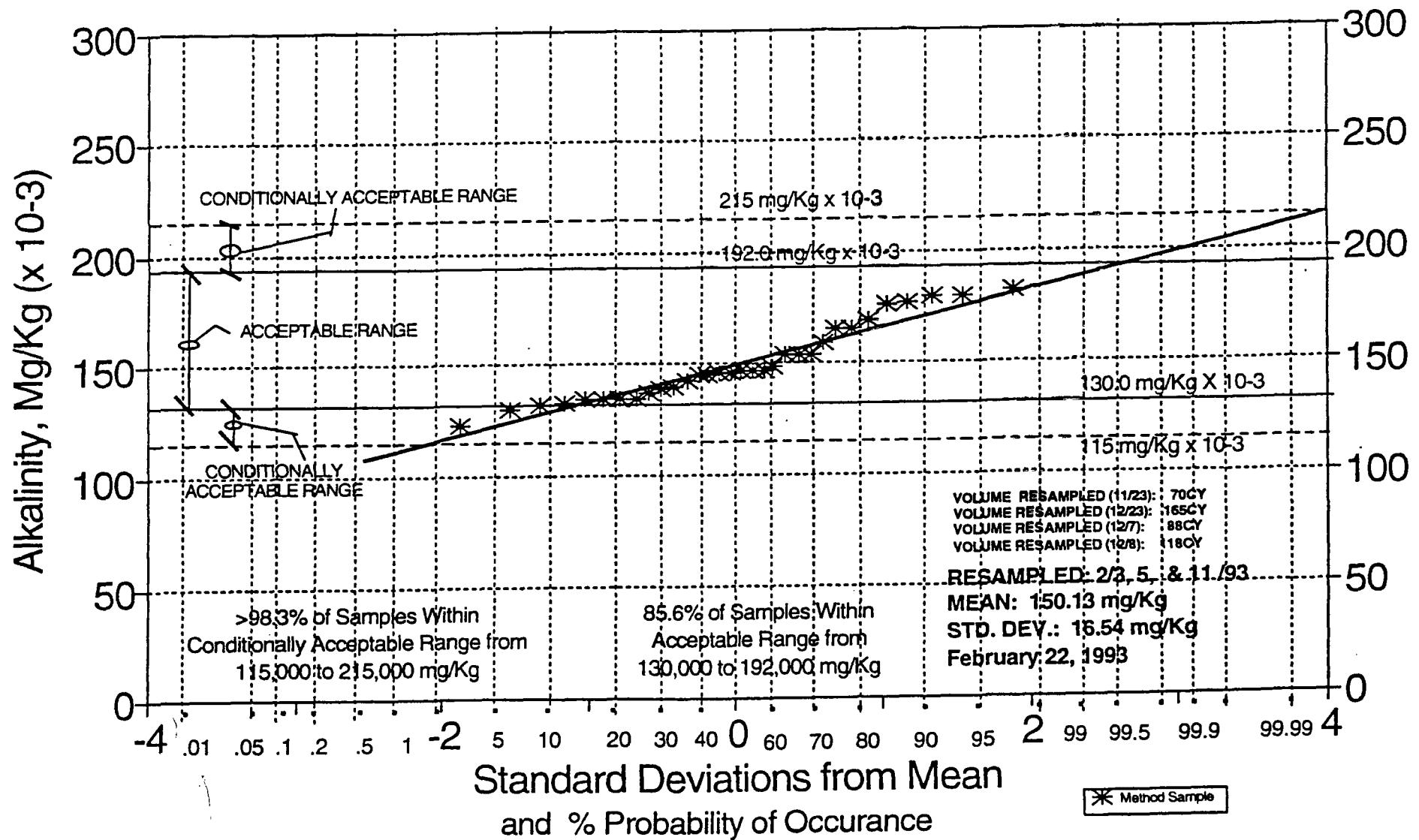


Figure 75
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of

Cell C4: December 23, 1992 Cells D4: December 83, 1992 (Resampled) Cells B5, B6, C5, and C6: January 28, 1993
 Cells D5, E6, E7, F7, and E8: January 8, 1992 (Resampled) Cell F5: November 11, 1992 (Resampled) Cell D6: January 1, 1993 (Resampled)
 Cells B7, C7, B8, and C8: February 5, 1993 Cells D7 and D8: January 14, 1993 (Resampled)
 Cells F8, G8, H8, and H9: December 4, 1992 (Resampled)

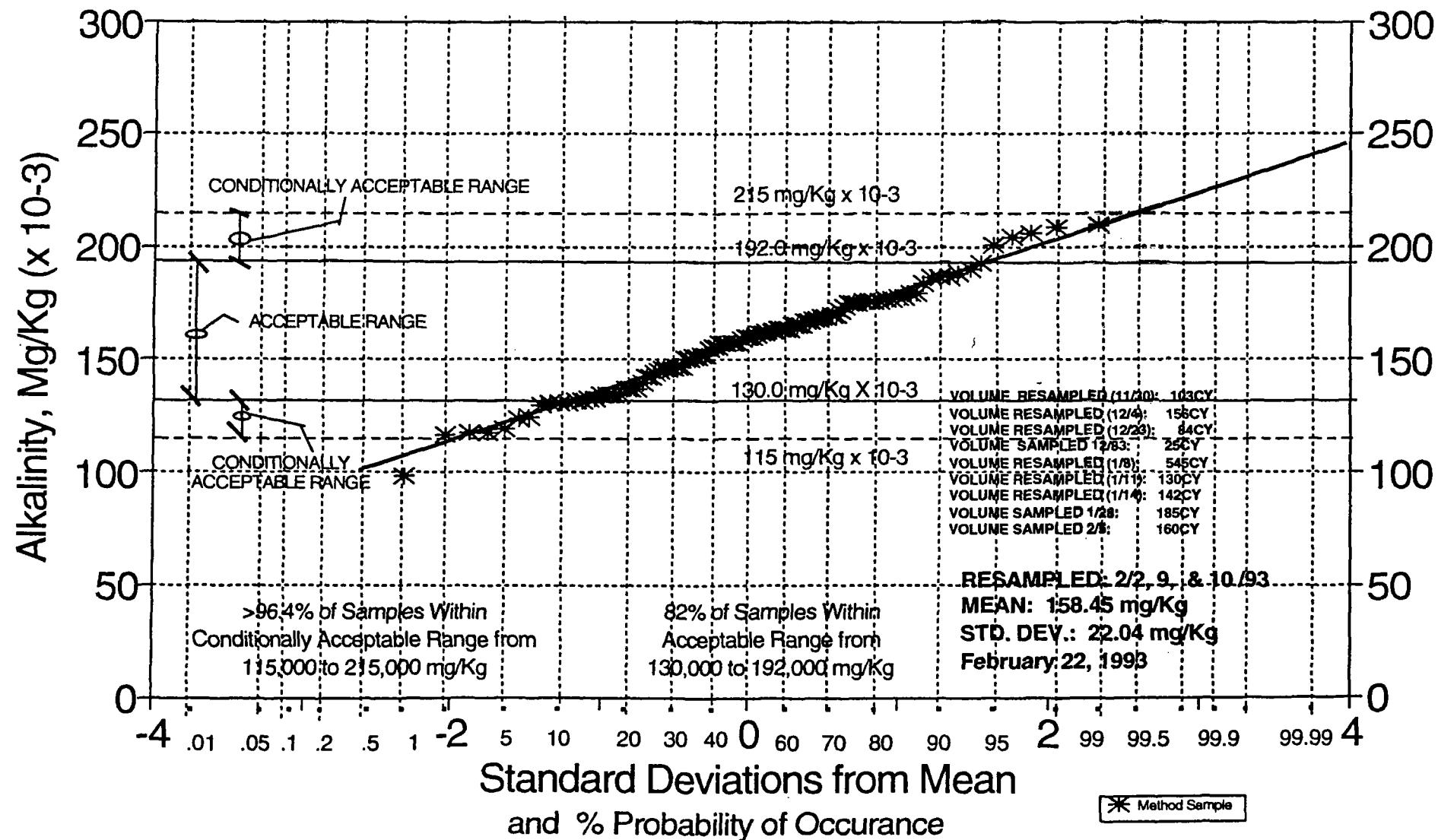


Figure 76
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells B10, B11, B12, B13, B14, B15, B16, B17, B18, and B19 : December 17, 1992 (Resampled)
 Cells C12, C13, C14, C15, C16, C17, C18, and C19: December 17, 1992 (Resampled) Cells B21 and B22: December 14, 1992 (Resampled)
 Cells C21 and C22: November 2, 1992 (Resampled)

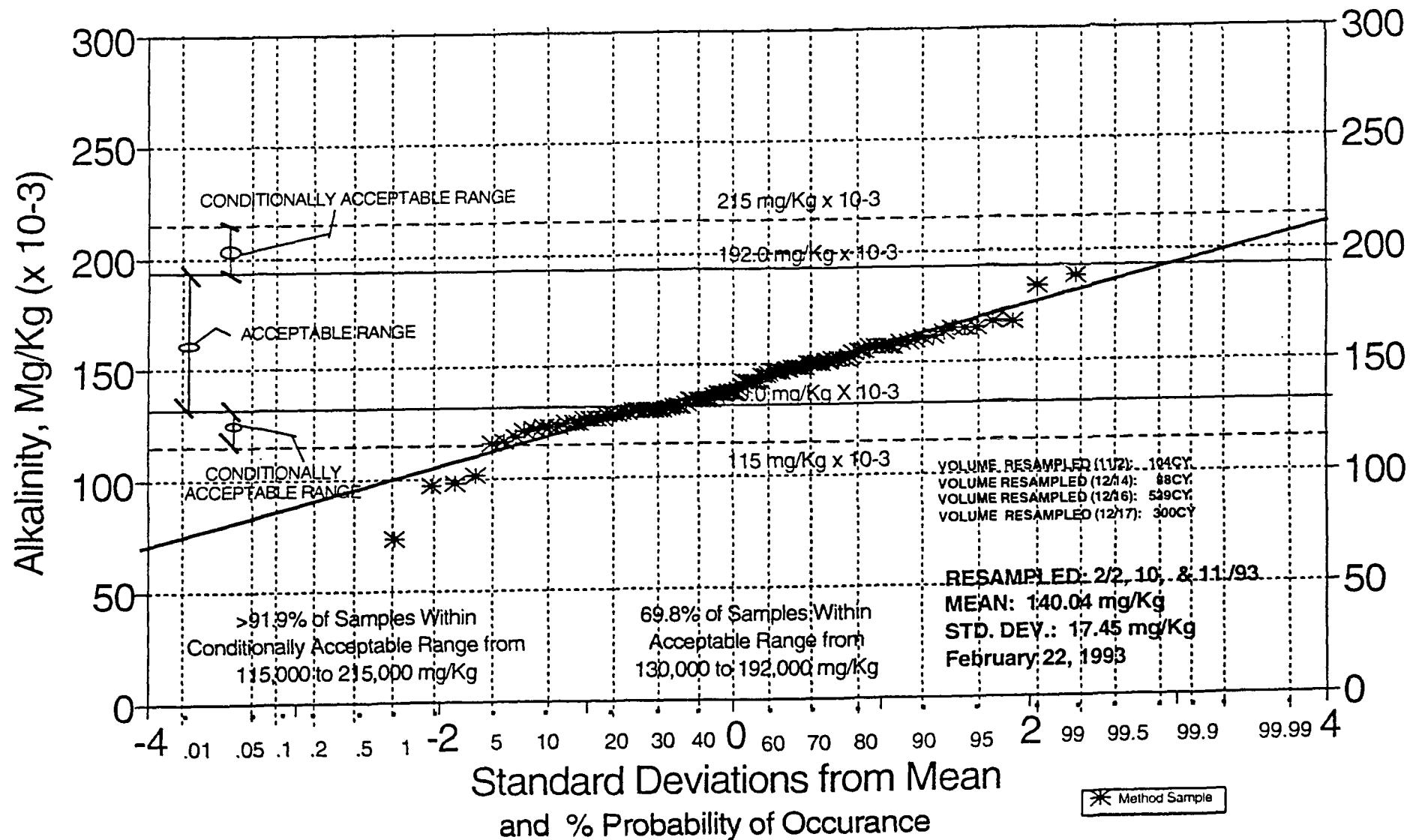


Figure 77
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells Q14, Q15, Q16, R15, and R16 : December 7, 1992 (Resampled)

Cells K15, L15, L17, M15, and M17: December 2, 1992 (Resampled) Cells N15, O15, P15, and P16: November 20 , 1992 (Resampled)

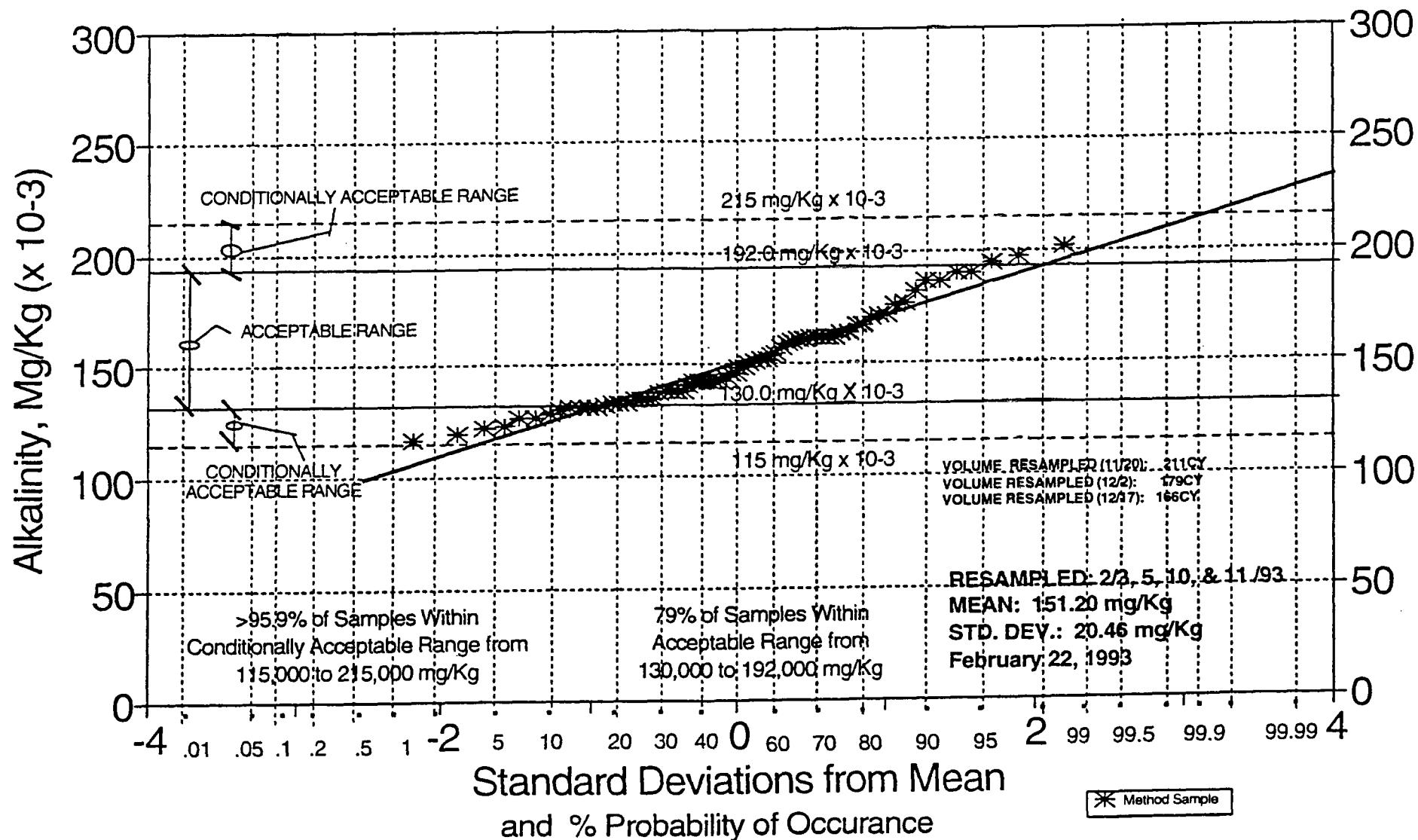


Figure 78
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells F32, G32, G33, and H33 : December 16, 1992 (Resampled)

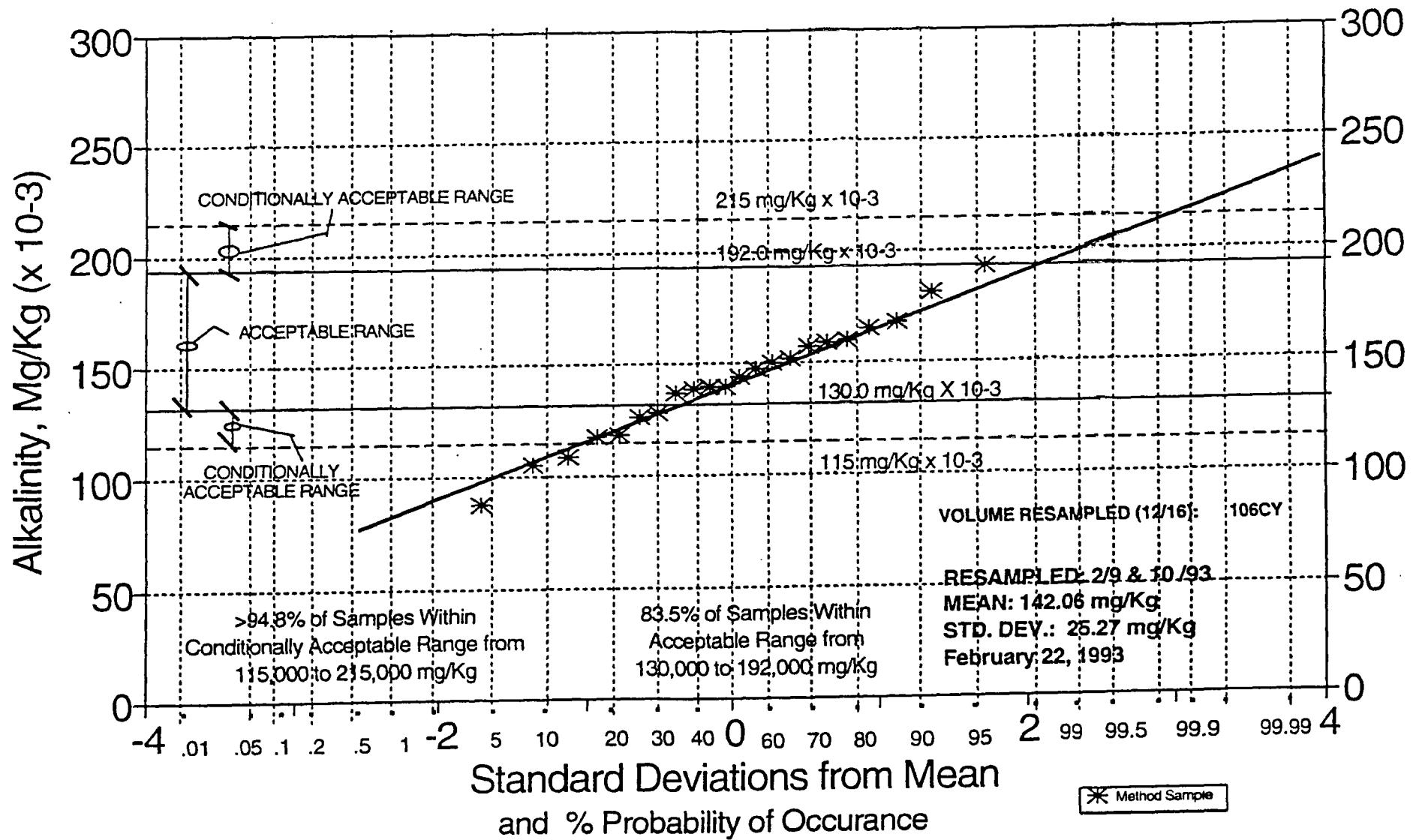


Figure 79
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
 Variability in Alkalinity Subsequent to Treatment of

Cells G8, F9, G9, and H9: December 4, 1992 (Resampled)

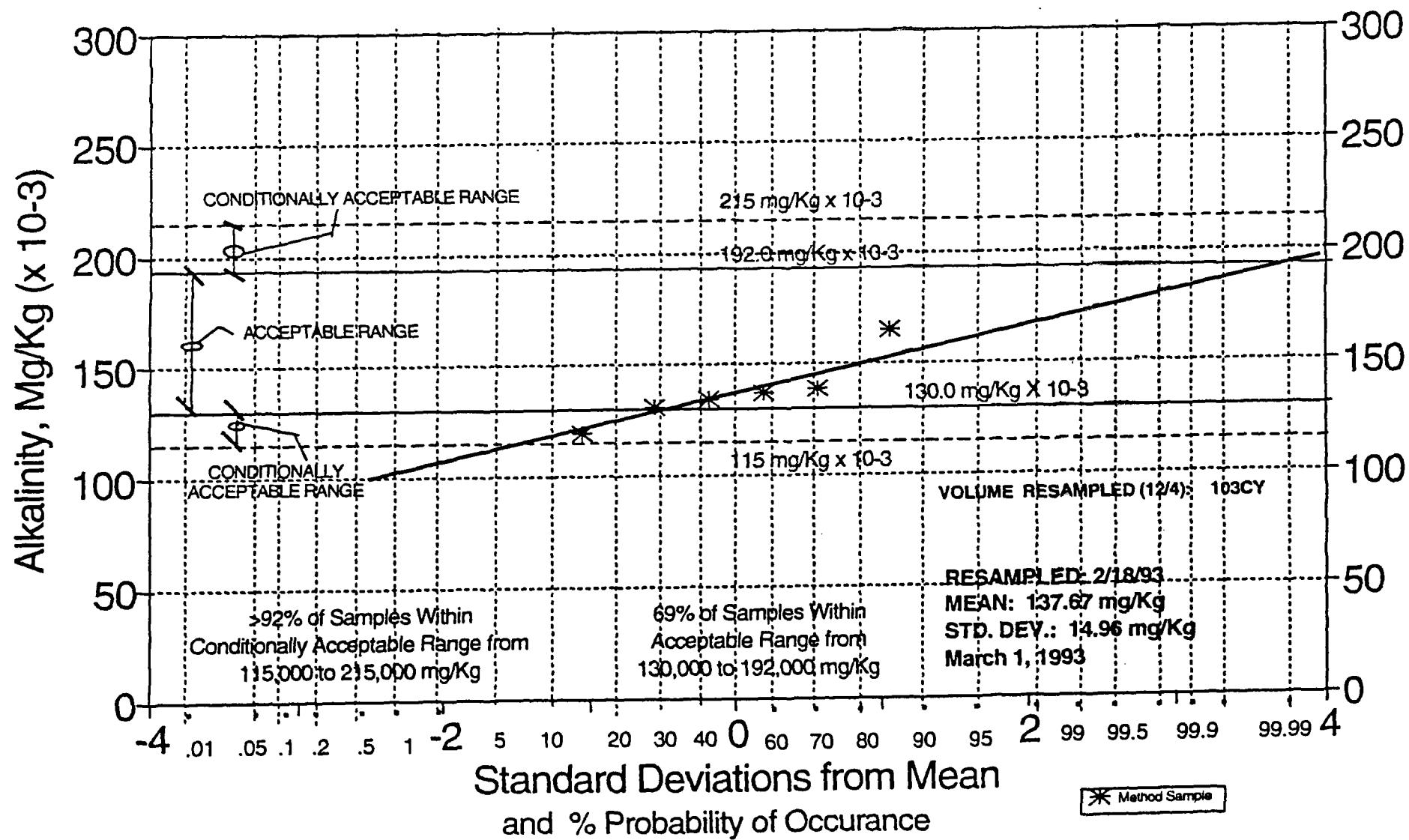


Figure 80
KEYSTONE STEEL & WIRE
 Retention Reservoir Remediation
Variability in Alkalinity Subsequent to Treatment of

Cells Q12, Q13, R13, Q14, and R14: December 7, 1992 (Resampled) Cell R12: February 10, 1992 (Resampled)

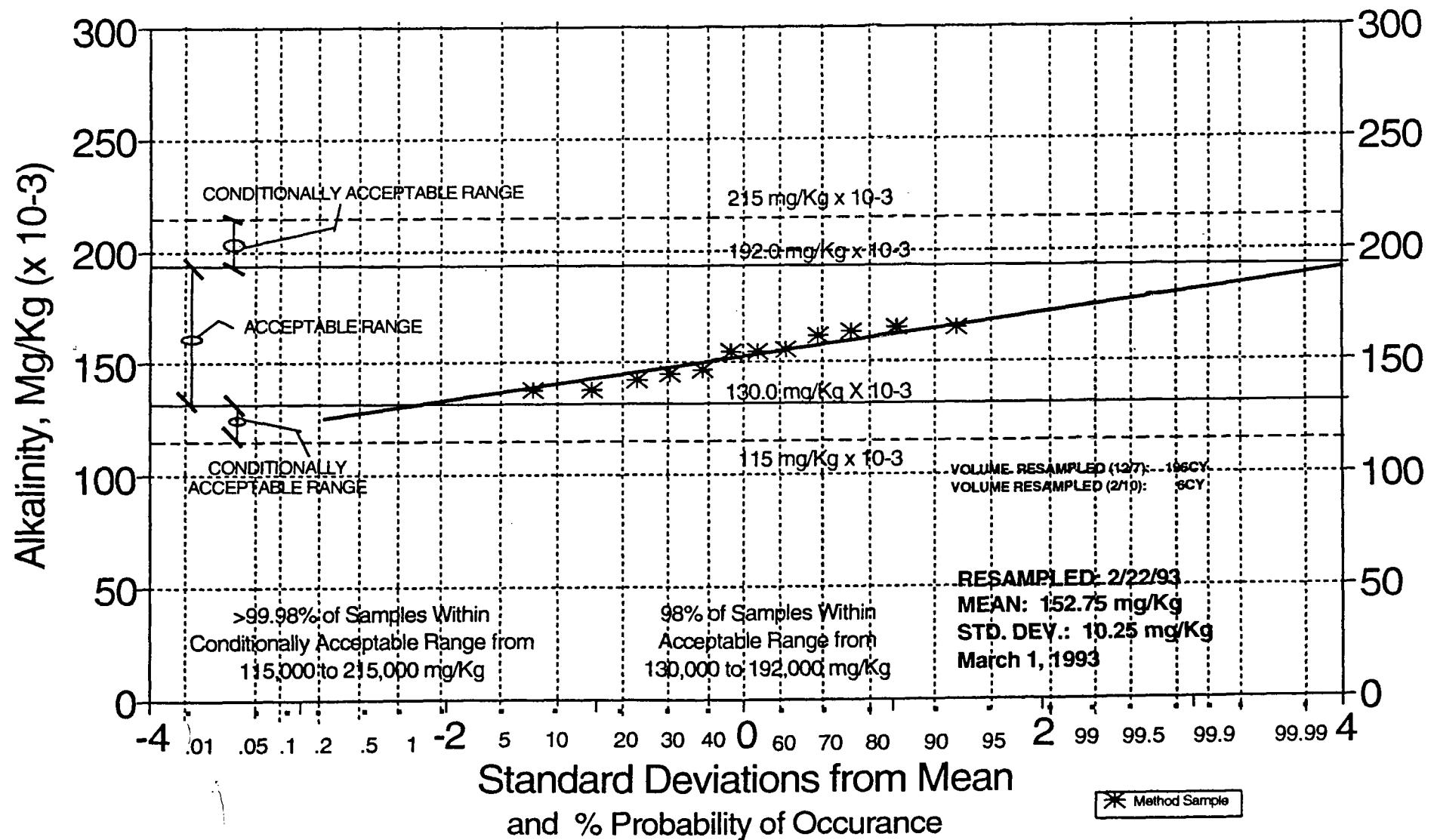


TABLE 12-1
SUMMARY OF STEP I REMEDIATION COSTS
FOR RETENTION RESERVOIR
(TREATED SEDIMENTS AS SPECIAL WASTE)
(Page 1 of 2)

Item	Estimated Cost
1. In-place sediment treatment and disposal	
a. Stabilization of 35,000 yds @ \$32/yd plus contractor's estimate for mobilization/demobilization and field support per proposal (33,230 cubic yards @ \$14/yd)	\$ 1,585,000
b. Excavate/load delisted materials 35,000 yds @ \$4/yd x 1.10**	\$ 154,000
c. Transport to landfill 35,000 yds @ \$175/load x 1.10 x 1.08/20 yds/load***	\$ 364,000
d. Disposal as special waste 35,000 yds @ \$8.02/ton x 1.10 x 1 ton/yd**	\$ 309,000
2. In-place bottom soils treatment and disposal	
a. Stabilization 6100 yds @ \$32/yd	\$ 195,000
b. Excavate/load delisted materials 6100 yds @ \$4/yd x 1.10**	\$ 27,000
c. Transport to landfill 6100 yds @ \$175/load x 1.10 x 1.08/20 yds/load***	\$ 63,000
d. Disposal as special waste 6100 yds @ \$8.02/ton x 1.10 x 1 ton/yd**	\$ 54,000
3. Support facilities	
a. Four loading/decon pads 1800 sq ft @ \$3.30/sq. ft.	\$ 6,000
b. Staging area and concrete pad 20,000 sq ft @ \$3.10/sq ft	\$ 62,000*
c. Continual water decanting (2 years), lump sum	\$ 7,000

TABLE 12-1
SUMMARY OF STEP I REMEDIATION COSTS
FOR RETENTION RESERVOIR
(TREATED SEDIMENTS AS SPECIAL WASTE)
 (Page 2 of 2)

Item	Estimated Cost
4. Analytical costs for sampling events	
a. Performance sampling analytical (Includes cost of trailer and one time set up @ \$18,000) plus:	\$ 99,000
1660 samples for pH, alkalinity @ \$8.40/sample 750 samples for TCLP indicator metals @ \$90/sample	
b. Delisting sampling analytical	\$ 82,000
50 samples for TCLP Metals @ \$130/sample 50 samples for Total Metals @ \$280/sample 20 samples for TCLP SVOCs @ \$485/sample 20 samples for Total SVOCs @ \$285/sample 100 samples for TCLP VOC @ \$260/sample 100 samples for Total VOC @ \$175/sample 20 samples for other parameters @ \$100/sample	
c. Verification sampling analytical	\$ 12,000
230 samples for pH, alkalinity @ \$8.40/sample 107 samples for TCLP Metals @ \$90/sample	
d. Clean closure sampling analytical	\$ 56,000
228 samples for TCLP Metals @ \$130/sample 57 samples for VOCs @ \$175/sample 57 samples for SVOCs @ \$285/sample	
5. Installation of four new wells	\$ 14,000
6. Sampling, analysis and reporting of data from ground water monitoring wells (2 years)	\$ 34,000
7. Preparation of delisting petition	\$ 15,000
8. Engineering and sampling costs	\$110,000
TOTAL ESTIMATED COST, STEP I:	\$3,186,000

Notes:

- * Costs shown but not included in total cost estimate, as item will be a permanent structure at Keystone and the cost will be capitalized.
- ** Includes 10% volume increase due to chemical addition.
- *** Includes 10% volume increase due to chemical addition and 8% volume increase due to excavation.

TABLE 12-2

**SUMMARY OF STEP II REMEDIATION COSTS
FOR NORTH HALF, NORTH DITCH
(TREATED SEDIMENTS AS SPECIAL WASTE)**
(Page 1 of 2)

Item	Estimated Cost
1. Install sheet piling 100 feet @ \$390/foot	\$ 39,000
2. Construct earthen dike 1780 cubic yards @ \$15/cubic yard	\$ 27,000*
3. Construct flood control level at WWTP 2890 cubic yards @ \$15/cubic yard	\$ 43,000*
4. Reroute WWTP discharge 200 feet @ \$155/foot	\$ 31,000*
5. Construct (2) loading/decontamination pads 910 square feet @ \$3.30/square foot	\$ 3,000
6. Install 48" corrugated metal culvert 100 feet @ \$80/foot	\$ 8,000
7. Install (2) 36" interconnecting culverts 200 feet @ \$60/foot	\$ 12,000
8. Initial water decanting, lump sum	\$ 12,000
9. Deactivate Pumphouse #1	\$ 2,000
10. Sediments:	
a. Mobilization/demobilization and project management 5110 cubic yards @ \$7/cubic yard	\$ 36,000
b. In-place treatment 4210 cubic yards @ \$32/cubic yard	\$ 135,000
c. Excavate/load delisted sediments 4210 cubic yards @ \$4/cubic yard x 1.10**	\$ 19,000
d. Transport to landfill 4210 cubic yards @ \$175/load x 1.10 x 1.08/20 yds/load***	\$ 44,000
e. Disposal as special waste 4210 cubic yards @ \$8.02/ton x 1.10 x 1 ton/yd**	\$ 37,000
11. Bottom soil:	
a. In-place treatment 900 cubic yards @ \$32/cubic yard	\$ 29,000
b. Excavate/load delisted materials 900 cubic yards @ \$4/cubic yard x 1.10**	\$ 4,000

TABLE 12-2

**SUMMARY OF STEP II REMEDIATION COSTS
FOR NORTH HALF, NORTH DITCH
(TREATED SEDIMENTS AS SPECIAL WASTE)**
(Page 2 of 2)

Item	Estimated Cost
c. Transport to landfill 900 cubic yards \$175/load x 1.10 x 1.08/20 yds/load***	\$ 9,000
d. Disposal as special waste 900 cubic yards @ \$8.02/ton x 1.10 x 1 ton/yd**	\$ 8,000
12. Continual water decanting (2 months), lump sum	\$ 5,000
13. Verification sampling analytical	\$ 3,000
14. Clean closure sampling analytical	\$ 6,000
15. Sampling, analysis and reporting of data from ground water monitoring wells	\$ 17,000
16. Engineering and sampling costs	\$ 46,000
TOTAL ESTIMATED COST, STEP II	\$ 474,000

Notes:

- * Cost shown but not included in total cost estimate as item will be permanent fixture at Keystone and the cost will be capitalized.
- ** Includes 10% volume increase due to chemical addition.
- *** Includes 10% volume increase due to chemical addition and 8% volume increase due to excavation.

TABLE 12-3

**SUMMARY OF STEP III REMEDIATION COSTS
FOR SOUTH HALF, NORTH DITCH
(TREATED SEDIMENTS AS SPECIAL WASTE)**
(Page 1 of 2)

Item	Estimated Cost
1. Breach earthen dike at north end, lump sum	\$ 2,000
2. Construct surface water bypass lift station, lump sum	\$ 48,000
3. Construct surface water bypass station wet well, lump sum	\$ 8,000
4. Construct surface water bypass force main 800 feet @ \$36/foot	\$ 29,000
5. Plug corrugated metal pipe, lump sum	\$ 2,000
6. Construct small surface water diversion trench, lump sum	\$ 2,000*
7. Extend earthen dike 930 cubic yards @ \$15/cubic yard	\$ 14,000*
8. Plug interconnecting culvert with Mid-Mill Ditch, lump sum	\$ 2,000
9. Reroute 10" culvert 200 feet @ \$70/foot	\$ 14,000*
10. Construct (2) loading/decontamination pads 910 square foot @ \$3.30/square foot	\$ 3,000
11. Initial water decanting, lump sum	\$ 3,000
12. Sediments:	
a. Mobilization/demobilization and project management 6530 cubic yards @ \$7/cubic yard	\$ 46,000

TABLE 12-3

**SUMMARY OF STEP III REMEDIATION COSTS
FOR SOUTH HALF, NORTH DITCH
(TREATED SEDIMENTS AS SPECIAL WASTE)**
(Page 2 of 2)

Item	Estimated Cost
b. In-Place treatment 5430 cubic yards @ \$32/cubic yard	\$174,000
c. Excavate/load delisted sediments 5430 cubic yards @ \$4/cubic yard x 1.10**	\$ 24,000
d. Transport to landfill 5430 cubic yards @ \$175/load x 1.10 x 1.08/20 yds/load***	\$ 56,000
e. Disposal as special waste 5430 cubic yards @ \$8.02/ton 1.10 x 1 ton/yd**	\$ 48,000
12. Bottom soil:	
a. In-place treatment 1100 cubic yards @ \$32/cubic yard	\$ 35,000
b. Excavate/load delisted materials 1100 cubic yards @ \$4/cubic yard x 1.10**	\$ 5,000
c. Transport to landfill 1100 cubic yards @ \$175/loads x 1.10 x 1.08/20 yds/load***	\$ 11,000
d. Disposal as special waste 1100 cubic yards @ \$8.02/ton x 1.10 x 1 ton/yd**	\$ 10,000
13. Continual water decanting (2 months)	\$ 4,000
14. Verification sampling analytical	\$ 3,000
15. Clean closure sampling analytical	\$ 6,000
16. Sampling, analysis and reporting of data from ground water monitoring wells	\$ 17,000
17. Engineering and sampling costs	\$ 46,000
TOTAL ESTIMATED COST, STEP III	\$ 582,000

Notes:

- * Cost shown but not included in total cost estimate as item will be permanent fixture at Keystone and the cost will be capitalized.
- ** Includes 10% volume increase due to chemical addition.
- *** Includes 10% volume increase due to chemical addition and 8% volume increase due to excavation.

TABLE 12-4

**SUMMARY OF STEP IV REMEDIATION COSTS
FOR MID-MILL DITCH
(TREATED SEDIMENTS AS SPECIAL WASTE)**
(Page 1 of 2)

Item	Estimated Cost
1. Breach sheet piling, lump sum	\$ 2,000
2. Extend bypass force main 1030 feet @ \$36/foot	\$ 37,000*
3. Plug interconnecting piping at both ends of Mid-Mill Ditch, lump sum	\$ 4,000
4. Plug 10" culvert, reroute line and direct back to North Ditch, lump sum	\$ 2,000
5. Reroute 36" pipe to North Ditch 200 feet @ \$130/foot	\$ 26,000*
6. Reroute 15" and 18" pipes to South Ditch-North Half 370 feet @ \$84/foot	\$ 31,000*
7. Construct (2) loading/decontamination pads 910 square feet @ \$3.30/square foot	\$ 3,000
8. Initial water decanting	\$ 3,000
9. Sediments:	
a. Mobilization/demobilization and project management 6970 cubic yards @ \$7/cubic yard	\$ 49,000
b. In-place treatment 5890 cubic yards @ \$32/cubic yard	\$ 188,000
c. Excavate/load delisted sediments 5890 cubic yards @ \$4/cubic yard x 1.10 **	\$ 26,000
d. Transport to landfill 5890 loads @ \$175/load x 1.10 x 1.08/20 yds/load ***	\$ 61,000
e. Disposal as special waste 5890 cubic yards @ \$8.02/ton x 1.10 x 1 ton/yd **	\$ 52,000
10. Bottom soil:	
a. In-place treatment 1080 cubic yards @ \$32/cubic yard	\$ 35,000

TABLE 12-4

**SUMMARY OF STEP IV REMEDIATION COSTS
FOR MID-MILL DITCH
(TREATED SEDIMENTS AS SPECIAL WASTE)**
(Page 2 of 2)

Item	Estimated Cost
b. Excavate/load delisted materials 1080 cubic yards @ \$4/cubic yard x 1.10 **	\$ 5,000
c. Transport to landfill 1080 cubic yards @ \$175/load x 1.10 x 1.08/20 yds/load ***	\$ 11,000
d. Disposal as special waste 1080 cubic yards @ \$8.02/ton x 1.10 x 1 ton/yd **	\$ 10,000
11. Continual water decanting (2 months)	\$ 4,000
12. Sampling, analysis and reporting of data from ground water monitoring wells	\$ 17,000
13. Verification sampling analytical	\$ 3,000
14. Clean closure sampling analytical	\$ 6,000
15. Engineering and sampling costs	\$ 38,000
TOTAL ESTIMATED COST, STEP IV	\$ 519,000

Notes:

- * Cost shown but not included in total cost estimate as item will be permanent fixture at Keystone and the cost will be capitalized.
- ** Includes 10% volume increase due to chemical addition.
- *** Includes 10% volume increase due to chemical addition and 8% volume increase due to excavation.

TABLE 12-5

**SUMMARY OF STEP V REMEDIATION COSTS
FOR SOUTH DITCH-NORTH HALF, SOUTH DITCH-SOUTH HALF,
DREDGE PILES, AND SURFACE DRAINAGE DITCH
(TREATED SEDIMENTS AS SPECIAL WASTE)**
(Page 1 of 2)

Item	Estimated Cost
1. Direct surface ditch to Lower South Ditch, lump sum	\$ 8,000
2. Unplug interconnecting pipe between Mid-Mill and North Ditch, lump sum	\$ 2,000
3. Plug rerouted 15" and 18" pipes and direct back to Mid-Mill Ditch, lump sum	\$ 4,000
4. Plug interconnecting pipe between South Ditch-North Half and Mid-Mill Ditch, lump sum	\$ 2,000
5. Excavate Dredge Piles and place in South Ditch-North Half 830 cubic yards @ \$4/cubic yard	\$ 3,000
6. Excavate Surface Drainage Ditch and place in South Ditch-North Half 110 cubic yards @ \$32/cubic yard	\$ 4,000
7. Extend bypass force main 420 feet @ \$36/foot	\$ 15,000*
8. Plug interconnecting pipe between South Ditch-South Half and Lower South Ditch, lump sum	\$ 2,000
9. Construct (1) loading/decontamination pad, lump sum	\$ 2,000
10. Initial water decanting, lump sum	\$ 1,000
11. Sediments:	
a. Mobilization/demobilization and project management 3380 cubic yards @ \$7/cubic yard	\$ 24,000
b. In-place treatment 2870 cubic yards @ \$32/cubic yard	\$ 92,000
c. Excavate/load delisted sediments 2870 cubic yards @ \$4/cubic yard x 1.10**	\$ 13,000
d. Transport to landfill 2870 cubic yards @ \$175/load x 1.10 x 1.08/20 yds/load***	\$ 30,000
e. Disposal as special waste 2870 cubic yards @ \$8.02/ton x 1.10 x 1 ton/yd**	\$ 25,000
12. Bottom soil:	
a. In-place treatment 510 cubic yards @ \$32/cubic yard	\$ 16,000
b. Excavate/load delisted materials 510 cubic yards @ \$4/cubic yards x 1.10**	\$ 2,000
c. Transport to landfill 510 cubic yards @ \$175/load x 1.10 x 1.08/20 yds/load***	\$ 5,000

TABLE 12-5

**SUMMARY OF STEP V REMEDIATION COSTS
FOR SOUTH DITCH-NORTH HALF, SOUTH DITCH-SOUTH HALF,
DREDGE PILES, AND SURFACE DRAINAGE DITCH
(TREATED SEDIMENTS AS SPECIAL WASTE)**
(Page 2 of 2)

Item	-Estimated Cost
d. Disposal as special waste 510 cubic yards @ \$8.02/ton x 1.10 x 1 ton/yd**	\$ 5,000
13. Continual water decanting (1 month)	\$ 2,000
14. Verification sampling analytical	\$ 4,000
15. Clean closure sampling analytical	\$ 22,000
16. Sampling, analysis and reporting of data from ground water monitoring wells	\$ 17,000
17. Engineering and sampling costs	\$ 58,000
TOTAL ESTIMATED COST, STEP V	\$ 343,000

Notes:

- * Cost shown but not included in total cost estimate as item will be permanent fixture at Keystone and the cost will be capitalized.
- ** Includes 10% volume increase due to chemical addition.
- *** Includes 10% volume increase due to chemical addition and 8% volume increase due to excavation.

TABLE 12-5

**SUMMARY OF STEP V REMEDIATION COSTS
FOR SOUTH DITCH-NORTH HALF, SOUTH DITCH-SOUTH HALF,
DREDGE PILES, AND SURFACE DRAINAGE DITCH
(TREATED SEDIMENTS AS SPECIAL WASTE)**
(Page 1 of 2)

Item	-Estimated Cost
1. Direct surface ditch to Lower South Ditch, lump sum	\$ 8,000
2. Unplug interconnecting pipe between Mid-Mill and North Ditch, lump sum	\$ 2,000
3. Plug rerouted 15" and 18" pipes and direct back to Mid-Mill Ditch, lump sum	\$ 4,000
4. Plug interconnecting pipe between South Ditch-North Half and Mid-Mill Ditch, lump sum	\$ 2,000
5. Excavate Dredge Piles and place in South Ditch-North Half 830 cubic yards @ \$4/cubic yard	\$ 3,000
6. Excavate Surface Drainage Ditch and place in South Ditch-North Half 110 cubic yards @ \$32/cubic yard	\$ 4,000
7. Extend bypass force main 420 feet @ \$36/foot	\$ 15,000*
8. Plug interconnecting pipe between South Ditch-South Half and Lower South Ditch, lump sum	\$ 2,000
9. Construct (1) loading/decontamination pad, lump sum	\$ 2,000
10. Initial water decanting, lump sum	\$ 1,000
11. Sediments:	
a. Mobilization/demobilization and project management 3380 cubic yards @ \$7/cubic yard	\$ 24,000
b. In-place treatment 2870 cubic yards @ \$32/cubic yard	\$ 92,000
c. Excavate/load delisted sediments 2870 cubic yards @ \$4/cubic yard x 1.10**	\$ 13,000
d. Transport to landfill 2870 cubic yards @ \$175/load x 1.10 x 1.08/20 yds/load***	\$ 30,000
e. Disposal as special waste 2870 cubic yards @ \$8.02/ton x 1.10 x 1 ton/yd**	\$ 25,000
12. Bottom soil:	
a. In-place treatment 510 cubic yards @ \$32/cubic yard	\$ 16,000
b. Excavate/load delisted materials 510 cubic yards @ \$4/cubic yards x 1.10**	\$ 2,000
c. Transport to landfill 510 cubic yards @ \$175/load x 1.10 x 1.08/20 yds/load***	\$ 5,000

TABLE 12-5

**SUMMARY OF STEP V REMEDIATION COSTS
FOR SOUTH DITCH-NORTH HALF, SOUTH DITCH-SOUTH HALF,
DREDGE PILES, AND SURFACE DRAINAGE DITCH
(TREATED SEDIMENTS AS SPECIAL WASTE)**
(Page 2 of 2)

Item	-Estimated Cost
d. Disposal as special waste 510 cubic yards @ \$8.02/ton x 1.10 x 1 ton/yd**	\$ 5,000
13. Continual water decanting (1 month)	\$ 2,000
14. Verification sampling analytical	\$ 4,000
15. Clean closure sampling analytical	\$ 22,000
16. Sampling, analysis and reporting of data from ground water monitoring wells	\$ 17,000
17. Engineering and sampling costs	\$ 58,000
TOTAL ESTIMATED COST, STEP V	\$ 343,000

Notes:

- * Cost shown but not included in total cost estimate as item will be permanent fixture at Keystone and the cost will be capitalized.
- ** Includes 10% volume increase due to chemical addition.
- *** Includes 10% volume increase due to chemical addition and 8% volume increase due to excavation.

TABLE 12-6

**SUMMARY OF STEP VI REMEDIATION COSTS
FOR LOWER SOUTH DITCH
(TREATED SEDIMENTS AS SPECIAL WASTE)**
(Page 1 of 2)

Item	Estimated Cost
1. Construct dike in south borrow area 950 cubic yards @ \$15/cubic yard	\$ 14,000*
2. Install lift station in south borrow area, lump sum	\$ 10,000
3. Install lift station discharge pipe 200 feet @ \$24/foot	\$ 5,000
4. Install lime water line and pump 100 feet @ \$24/foot	\$ 2,000*
5. Direct Surface Drainage Ditch to South Ditch	\$ 1,000*
6. Plug interconnecting culvert between South Ditch-South Half and Lower South Ditch, lump sum	\$ 2,000
7. Unplug interconnecting culvert between Mid-Mill and South Ditch, lump sum	\$ 2,000
8. Reactivate Pumphouse #1, lump sum	\$ 1,000
9. Construct (6) loading/decontamination pads 2700 square feet @ \$3.30/square foot	\$ 9,000
10. Deactivate Pumphouse #2, lump sum	\$ 1,000
11. Initial water decanting, lump sum	\$ 11,000
12. Sediments:	
a. Mobilization/demobilization and project management 40,390 cubic yards @ \$7/cubic yard	\$ 283,000
b. In-place treatment 35,600 cubic yards @ \$32/cubic yard	\$1,139,000
c. Excavate/load delisted sediments 35,600 cubic yards @ \$4/cubic yard x 1.10**	\$ 157,000
d. Transport to landfill 35,600 cubic yards @ \$175/load x 1.10 x 1.08/20 yd/load***	\$ 370,000
e. Disposal as special waste 35,600 cubic yard @ \$8.02/ton x 1.10 x 1 yd/ton**	\$ 314,000
13. Bottom soils:	
a. In-place treatment 4790 cubic yards @ \$32/cubic yard	\$ 153,000
b. Excavate/load delisted materials 4790 cubic yards @ \$4/cubic yard x 1.10**	\$ 21,000

TABLE 12-6
SUMMARY OF STEP VI REMEDIATION COSTS
FOR LOWER SOUTH DITCH
(TREATED SEDIMENTS AS SPECIAL WASTE)
 (Page 2 of 2)

Item	Estimated Cost
c. Transport to landfill 4790 cubic yards @ \$175/load x 1.10 x 1.08/20 cubic yards/load***	\$ 50,000
d. Disposal as special waste 4790 cubic yards @ \$8.02/ton x 1.10 x 1 yd/ton**	\$ 42,000
14. Continual water decanting (3 months)	\$ 7,000
15. Breach earthen dike	\$ 2,000
16. Redirect WWTP discharge	\$ 3,000
17. Verification sampling analytical	\$ 10,000
18. Clean closure sampling analytical	\$ 50,000
19. Sampling, analysis, and reporting of data from ground water monitoring wells (2 years)	\$ 34,000
20. Engineering and sampling costs	\$ 60,000
TOTAL ESTIMATED COST, STEP VI	\$ 2,736,000

Notes:

- * Cost shown but not included in total cost estimate as item will be permanent fixture at Keystone and the cost will be capitalized.
- ** Includes 10% volume increase due to chemical addition.
- *** Includes 10% volume increase due to chemical addition and 8% volume increase due to excavation.

TABLE 12-7

**SUMMARY OF STEP I REMEDIATION COSTS
FOR RETENTION RESERVOIR
(TREATED SEDIMENTS AS HAZARDOUS WASTE)**
(Page 1 of 2)

Item	Estimated Cost
1. In-place sediment treatment and disposal	
a. Stabilization of 35,000 yds @ \$32/yd plus contractor's estimate for mobilization/demobilization and field support per proposal (33,230 cubic yards @ \$14/yd)	\$ 1,585,000
b. Excavate/load sediments 35,000 cubic yards @ \$4/yd x 1.10**	154,000
c. Transport to landfill 35,000 cubic yards @ \$175/load x 1.10 x 1.08/20 yds/load***	364,000
d. Disposal as hazardous waste 35,000 cubic yards @ \$165/ton x 1.10 x 1 ton/yd**	6,353,000
2. In-place bottom soils treatment and disposal	
a. Stabilization 6100 cubic yards @ \$32/yd	195,000
b. Excavate/load sediments 6100 cubic yards @ \$4/yd x 1.10**	27,000
c. Transport to landfill 6100 cubic yards @ \$175/load x 1.10 x 1.08/20 yds/load***	63,000
d. Disposal as hazardous waste 6100 cubic yards @ \$165/ton x 1.10 x 1 ton/yd**	1,107,000
3. Support facilities	
a. Four loading/decon pads 1800 sq ft @ \$3.30/sq. ft.	6,000
b. Staging area and concrete pad 20,000 sq ft @ \$3.10/sq ft	62,000*
c. Continual water decanting (2 years), lump sum	7,000

TABLE 12-7

**SUMMARY OF STEP I REMEDIATION COSTS
FOR RETENTION RESERVOIR
(TREATED SEDIMENTS AS HAZARDOUS WASTE)**
(Page 2 of 2)

Item	Estimated Cost
4. Analytical costs for sampling events	
a. Performance sampling analytical (Includes cost of trailer and one time set up @ \$18,000) plus:	\$ 99,000
1660 samples for pH, alkalinity @ \$8.40/sample	
750 samples for TCLP indicator metals @ \$90/sample	
b. Delisting sampling analytical	82,000
50 samples for TCLP Metals @ \$130/sample	
50 samples for Total Metals @ \$280/sample	
20 samples for TCLP SVOCs @ \$485/sample	
20 samples for Total SVOCs @ \$285/sample	
100 samples for TCLP VOC @ \$260/sample	
100 samples for Total VOC @ \$175/sample	
20 samples for other parameters @ \$100/sample	
c. Verification sampling analytical	12,000
230 samples for pH, alkalinity @ \$8.40/sample	
107 samples for TCLP Metals @ \$90/sample	
d. Clean closure sampling analytical	56,000
228 samples for TCLP Metals @ \$130/sample	
57 samples for VOCs @ \$175/sample	
57 samples for SVOCs @ \$285/sample	
5. Installation of four new wells	14,000
6. Sampling, analysis and reporting of data from ground water monitoring wells (2 years)	34,000
7. Preparation of delisting petition	15,000
8. Engineering and sampling costs	110,000
TOTAL ESTIMATED COST, STEP I:	\$10,345,000

Notes:

- * Costs shown but not included in total cost estimate, as item will be a permanent structure at Keystone and the cost will be capitalized.
- ** Includes 10% volume increase due to chemical addition.
- *** Includes 10% volume increase due to chemical addition and 8% volume increase due to excavation.

TABLE 12-8

**SUMMARY OF STEP II REMEDIATION COSTS
FOR NORTH HALF, NORTH DITCH
(TREATED SEDIMENTS AS HAZARDOUS WASTE)**
(Page 1 of 2)

Item	Estimated Cost
1. Install sheet piling 100 feet @ \$390/foot	\$ 39,000
2. Construct earthen dike 1780 cubic yards @ \$15/cubic yards	27,000*
3. Construct flood control levee at WWTP 2890 cubic yards @ \$15/cubic yard	43,000*
4. Reroute WWTP discharge 200 feet @ \$155/foot	31,000*
5. Construct (2) loading/decontamination pads 910 square feet @ \$3.30/square foot	3,000
6. Install 48" corrugated metal culvert 100 feet @ \$80/foot	8,000
7. Install (2) 36" interconnecting culverts 200 feet @ \$60/foot	12,000
8. Initial water decanting, lump sum	12,000
9. Deactivate Pumphouse #1	2,000
10. Sediments:	
a. Mobilization/demobilization and project management 5110 cubic yards @ \$7/cubic yard	36,000
b. In-place treatment 4210 cubic yards @ \$32/cubic yard	135,000
c. Excavate/load sediments 4210 cubic yards @ \$4/cubic yard \times 1.10**	19,000
d. Transport to landfill 4210 cubic yards @ \$175/load \times 1.10 \times 1.08/20 yds/load***	44,000
e. Disposal as hazardous waste 4210 cubic yards @ \$165/ton \times 1.10 \times 1 ton/yd**	764,000

TABLE 12-8
SUMMARY OF STEP II REMEDIATION COSTS
FOR NORTH HALF, NORTH DITCH
(TREATED SEDIMENTS AS HAZARDOUS WASTE)
(Page 2 of 2)

Item	Estimated Cost
11. Bottom soil:	
a. In-place treatment 900 cubic yards @ \$32/cubic yard	\$ 29,000
b. Excavate/load materials 900 cubic yards @ \$4/cubic yard x 1.10**	4,000
c. Transport to landfill 900 cubic yards \$175/load x 1.10 x 1.08/20 yds/load***	9,000
d. Disposal as hazardous waste 900 cubic yards @ \$165/ton x 1.10 x 1 ton/yd**	163,000
12. Continual water decanting (2 months), lump sum	5,000
13. Clean closure sampling analytical	6,000
14. Sampling, analysis and reporting of data from ground water monitoring wells	17,000
15. Engineering and sampling costs	46,000
TOTAL ESTIMATED COST, STEP II	\$1,454,000

Notes:

- * Cost shown but not included in total cost estimate as item will be permanent fixture at Keystone and the cost will be capitalized.
- ** Includes 10% volume increase due to chemical addition.
- *** Includes 10% volume increase due to chemical addition and 8% volume increase due to excavation.

TABLE 12-9

**SUMMARY OF STEP III REMEDIATION COSTS
FOR SOUTH HALF, NORTH DITCH
(TREATED SEDIMENTS AS HAZARDOUS WASTE)**
(Page 1 of 2)

Item	Estimated Cost
1. Breach earthen dike at north end, lump sum	\$ 2,000
2. Construct surface water bypass lift station, lump sum	48,000
3. Construct surface water bypass lift station wet well, lump sum	8,000
4. Construct surface water bypass force main 800 feet @ \$36/foot	29,000
5. Plug corrugated metal pipe, lump sum	2,000
6. Construct small surface water diversion trench, lump sum	2,000*
7. Extend earthen dike 930 cubic yards @ 15/cubic yard	14,000*
8. Plug interconnecting culvert with Mid-Mill Ditch, lump sum	2,000
9. Reroute 10" culvert 200 feet @ \$70/foot	14,000*
10. Construct (2) loading/decontamination pads 910 square foot @ \$3.30/square foot	3,000
11. Initial water decanting, lump sum	3,000
12. Sediments:	
a. Mobilization/demobilization and project management 6530 cubic yards @ \$7/cubic yard	46,000
b. In-Place treatment 5430 cubic yards @ \$37/cubic yard	174,000
c. Excavate/load sediments 5430 cubic yards @ \$4/cubic yard x 1.10**	24,000
d. Transport to landfill 5430 cubic yards @ \$175/load x 1.10 x 1.08/20 yds/load***	56,000
e. Disposal as hazardous waste 5430 cubic yards @ \$165/ton 1.10 x 1 ton/yd**	986,000

TABLE 12-9

**SUMMARY OF STEP III REMEDIATION COSTS
FOR SOUTH HALF, NORTH DITCH
(TREATED SEDIMENTS AS HAZARDOUS WASTE)**
(Page 2 of 2)

Item	Estimated Cost
12. Bottom soil:	
a. In-place treatment 1100 cubic yards @ \$32/cubic yard	\$ 35,000
b. Excavate/load materials 1100 cubic yards @ \$4/cubic yards x 1.10**	5,000
c. Transport to landfill 1100 cubic yards @ \$175/loads x 1.10 x 1.08/20 yds/load***	11,000
d. Disposal as hazardous waste 1100 cubic yards @ \$165/ton x 1.10 x 1 ton/yd**	200,000
13. Continual water decanting (2 months)	4,000
14. Clean closure sampling analytical	6,000
15. Sampling, analysis and reporting of data from ground water monitoring wells	17,000
16. Engineering and sampling costs	46,000
TOTAL ESTIMATED COST, STEP III	\$1,737,000

Notes:

- * Cost shown but not included in total cost estimate as item will be permanent fixture at Keystone and the cost will be capitalized.
- ** Includes 10% volume increase due to chemical addition.
- *** Includes 10% volume increase due to chemical addition and 8% volume increase due to excavation.

TABLE 12-10

**SUMMARY OF STEP IV REMEDIATION COSTS
FOR MID-MILL DITCH
(TREATED SEDIMENTS AS HAZARDOUS WASTE)**
(Page 1 of 2)

Item	Estimated Cost
1. Breach sheet piling, lump sum	\$ 2,000
2. Extend bypass force main 1030 feet @ \$36/foot	37,000*
3. Plug interconnecting piping at both ends of Mid-Mill Ditch, lump sum	4,000
4. Plug 10" culvert, reroute line and direct back to North Ditch, lump sum	2,000
5. Reroute 36" pipe to North Ditch 200 feet @ \$130/foot	26,000*
6. Reroute 15" and 18" pipes to South Ditch-North Half 370 feet @ \$84/foot	31,000*
7. Construct (2) loading/decontamination pads 910 square feet @ \$3.30/square foot	3,000
8. Initial water decanting	3,000
9. Sediments:	
a. Mobilization/demobilization and project management 6970 cubic yards @ \$7/cubic yard	49,000
b. In-place treatment 5890 cubic yards @ \$32/cubic yard	188,000
c. Excavate/load sediments 5890 cubic yards @ \$4/cubic yard x 1.10 **	26,000
d. Transport to landfill 5890 cubic yards @ \$175/load x 1.10 x 1.08/20 yds/load **	61,000
e. Disposal as hazardous waste 5890 cubic yards @ \$165/ton x 1.10 x 1 ton/yd **	1,069,000
10. Bottom soil:	
a. In-place treatment 1080 cubic yards @ \$32/cubic yard	35,000
b. Excavate/load materials 1080 cubic yards @ \$4/cubic yard x 1.10 **	5,000
c. Transport to landfill 1080 cubic yards @ \$175/load x 1.10 x 1.08/20 yds/load ***	11,000
d. Disposal as hazardous waste 1080 cubic yards @ \$165/ton x 1.10 x 1 ton/yd **	196,000

TABLE 12-10

**SUMMARY OF STEP IV REMEDIATION COSTS
FOR MID-MILL DITCH
(TREATED SEDIMENTS AS HAZARDOUS WASTE)**
(Page 2 of 2)

Item	Estimated Cost
11. Continual water decanting (2 months)	\$ 4,000
12. Sampling, analysis and reporting of data from ground water monitoring wells	17,000
13. Clean closure sampling analytical	6,000
14. Engineering and sampling costs	38,000
TOTAL ESTIMATED COST, STEP IV	\$1,813,000

Notes:

- * Cost shown but not included in total cost estimate as item will be permanent fixture at Keystone and the cost will be capitalized.
- ** Includes 10% volume increase due to chemical addition.
- *** Includes 10% volume increase due to chemical addition and 8% volume increase due to excavation.

TABLE 12-11

**SUMMARY OF STEP V REMEDIATION COSTS
FOR SOUTH DITCH-NORTH HALF, SOUTH DITCH-SOUTH HALF,
DREDGE PILES, AND SURFACE DRAINAGE DITCH
(TREATED SEDIMENTS AS HAZARDOUS WASTE)**
(Page 1 of 2)

Item	Estimated Cost
1. Direct Surface Drainage Ditch to Lower South Ditch, lump sum	\$ 8,000
2. Unplug interconnecting pipe between Mid-Mill and North Ditch, lump sum	2,000
3. Plug rerouted 15" and 18" pipes and direct back to Mid-Mill Ditch, lump sum	4,000
4. Plug interconnecting pipe between South Ditch-North Half and Mid-Mill Ditch, lump sum	2,000
5. Excavate dredge piles and place in South Ditch-North Half 830 cubic yards @ \$4/cubic yard	3,000
6. Excavate Surface Drainage Ditch and place in South Ditch-North Half 110 cubic yards @ \$32/cubic yard	4,000
7. Extend bypass force main 420 feet @ \$36/foot	15,000*
8. Plug interconnecting pipe between South Ditch-South Half and Lower South Ditch, lump sum	2,000
9. Construct (1) loading/decontamination pad, lump sum	2,000
10. Initial water decanting, lump sum	1,000
11. Sediments:	
a. Mobilization/demobilization and project management 3380 cubic yards @ \$7/cubic yard	24,000
b. In-place treatment 2870 cubic yards @ \$32/cubic yard	92,000
c. Excavate/load sediments 2870 cubic yards @ \$4/cubic yard x 1.10**	13,000
d. Transport to landfill 2870 cubic yards @ \$175/load x 1.10 x 1.08/20 yds/load***	30,000
e. Disposal as hazardous waste 2870 cubic yards @ \$165/ton x 1.10 x 1 ton/yd**	521,000

TABLE 12-11

**SUMMARY OF STEP V REMEDIATION COSTS
FOR SOUTH DITCH-NORTH HALF, SOUTH DITCH-SOUTH HALF,
DREDGE PILES, AND SURFACE DRAINAGE DITCH
(TREATED SEDIMENTS AS HAZARDOUS WASTE)**
(Page 2 of 2)

Item	Estimated Cost
12. Bottom soil:	
a. In-place treatment 510 cubic yards @ \$32/cubic yard	\$ 16,000
b. Excavate/load materials 510 cubic yards @ \$4/cubic yards x 1.10**	2,000
c. Transport to landfill 510 cubic yards @ \$175/load x 1.10 x 1.08/20 yds/load***	5,000
d. Disposal as hazardous waste 510 cubic yard @ \$165/ton x 1.10 x 1 ton/yd**	93,000
13. Continual water decanting (1 month)	2,000
14. Clean closure sampling analytical	22,000
15. Sampling, analysis and reporting of data from ground water monitoring wells	17,000
16. Engineering and sampling costs	58,000
TOTAL ESTIMATED COST, STEP V	\$938,000

Notes:

- * Cost shown but not included in total cost estimate as item will be permanent fixture at Keystone and the cost will be capitalized.
- ** Includes 10% volume increase due to chemical addition.
- *** Includes 10% volume increase due to chemical addition and 8% volume increase due to excavation.

TABLE 12-12
SUMMARY OF STEP VI REMEDIATION COSTS
FOR LOWER SOUTH DITCH
(TREATED SEDIMENTS AS HAZARDOUS WASTE)
 (Page 1 of 2)

Item	Estimated Cost
1. Construct dike in south borrow area 950 cubic yards @ \$15/cubic yard	\$ 14,000*
2. Install lift station in south borrow area, lump sum	10,000
3. Install lift station discharge pipe 200 feet @ \$24/foot	5,000
4. Install lime water line and pump 100 feet @ \$24/foot	2,000*
5. Direct Surface Drainage Ditch to South Ditch	1,000*
6. Plug interconnecting culvert between South Ditch-South Half and Lower South Ditch, lump sum	2,000
7. Unplug interconnecting culvert between Mid-Mill and South Ditch, lump sum	2,000
8. Reactivate Pumphouse #1, lump sum	1,000
9. Construct (6) loading/decontamination pads 2700 square feet @ \$3.30/square foot	9,000
10. Deactivate Pumphouse #2, lump sum	1,000
11. Initial water decanting, lump sum	11,000
12. Sediments:	
a. Mobilization/demobilization and project management 40,390 cubic yards @ \$7/cubic yard	283,000
b. In-place treatment 35,600 cubic yards @ \$32/cubic yard	1,139,000
c. Excavate/load sediments 35,600 cubic yards @ \$4/cubic yard x 1.10**	157,000
d. Transport to landfill 35,600 cubic yards @ \$175/load x 1.10 x 1.08/20 yd/load***	370,000
e. Disposal as hazardous waste 35,600 cubic yard @ \$165/ton x 1.10 x 1 yd/ton**	6,461,000

TABLE 12-12
SUMMARY OF STEP VI REMEDIATION COSTS
FOR LOWER SOUTH DITCH
(TREATED SEDIMENTS AS HAZARDOUS WASTE)
(Page 2 of 2)

Item	Estimated Cost
13. Bottom soils:	
a. In-place treatment 4790 cubic yards @ \$32/cubic yard	153,000
b. Excavate/load materials 4790 cubic yards @ \$4/cubic yard x 1.10**	21,000
c. Transport to landfill 4790 cubic yards @ \$175/load x 1.10 x 1.08/20 cubic yard/load***	50,000
d. Disposal as hazardous waste 4790 cubic yards @ \$165/ton x 1.10 x 1 yd/ton**	869,000
14. Continual water decanting (3 months)	7,000
15. Breach earthen dike	2,000
16. Redirect WWTP discharge	3,000
17. Clean closure sampling analytical	50,000
18. Sampling, analysis, and reporting of data from ground water monitoring wells (2 years)	34,000
19. Engineering and sampling costs	60,000
TOTAL ESTIMATED COST, STEP VI	\$9,717,000

Notes:

- * Cost shown but not included in total cost estimate as item will be permanent fixture at Keystone and the cost will be capitalized.
- ** Includes 10% volume increase due to chemical addition.
- *** Includes 10% volume increase due to chemical addition and 8% volume increase due to excavation.

TABLE 12-13
SUMMARY COST COMPARISON
DISPOSAL OF SEDIMENTS AS SPECIAL WASTE VS. HAZARDOUS WASTE

Sediment Treatment and Disposal:	Estimated Costs for Delisted Sediments	Estimated Costs for Sediments as Hazardous Wastes
Step I (detailed on Table 12-1 and 12-7)	\$3,186,000	\$10,345,000
Step II (detailed on Table 12-2 and 12-8)	474,000	1,454,000
Step III (detailed on Table 12-3 and 12-9)	582,000	1,737,000
Step IV (detailed on Table 12-4 and 12-10)	519,000	1,813,000
Step V (detailed on Table 12-5 and 12-11)	343,000	938,000
Step VI (detailed on Table 12-6 and 12-12)	2,736,000	9,717,000
Total Steps I through VI	\$7,840,000	\$26,004,000

INFLATION ADJUSTMENT

Annual Adjustment:

1991 Implicit Price Deflator at 117.8

1992 Implicit Price Deflator at 120.9

$$\text{Inflation Factor} \frac{(120.9)}{(117.8)} = 1.0263$$

Total Cost Adjustment as Delisted Sediments:

$$\$7,840,000 \times (1.0263) = \$8,046,000$$

Total Cost Adjustment as Hazardous Wastes:

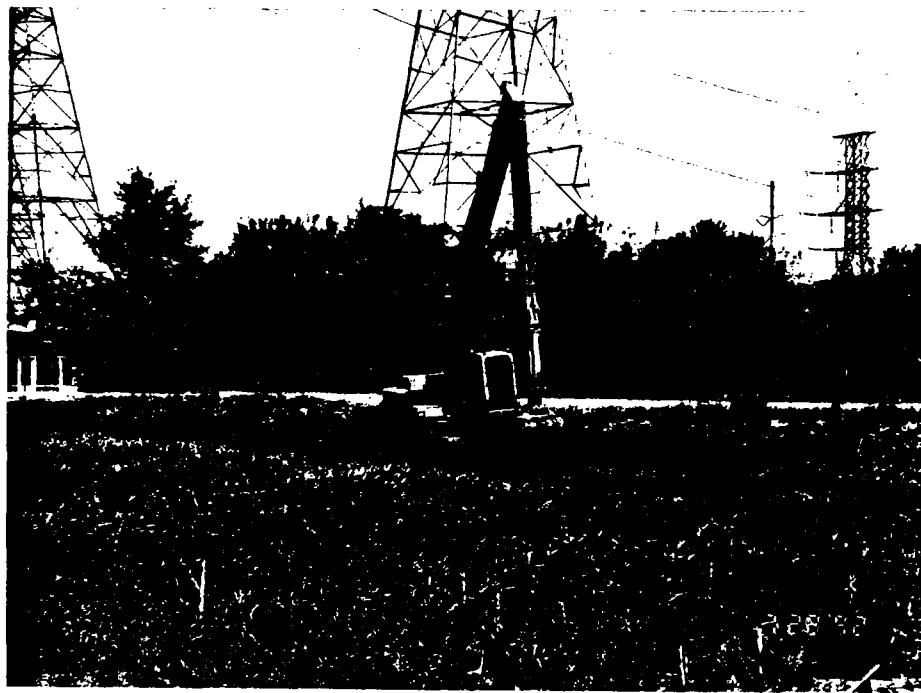
$$\$26,004,000 \times (1.0263) = \$26,668,000$$



Photograph No. 1 Retention reservoir prior to remediation activities.



Photograph No. 2 Cutting and clearing underbrush with mixer head.



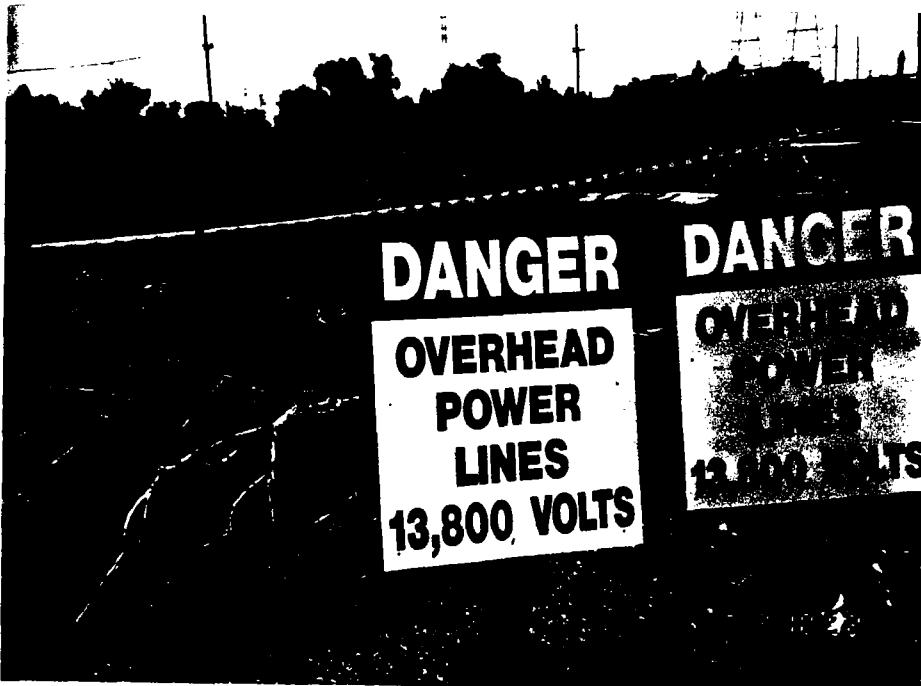
Photograph No. 3 Construction of temporary roads around the perimeter of the reservoir.



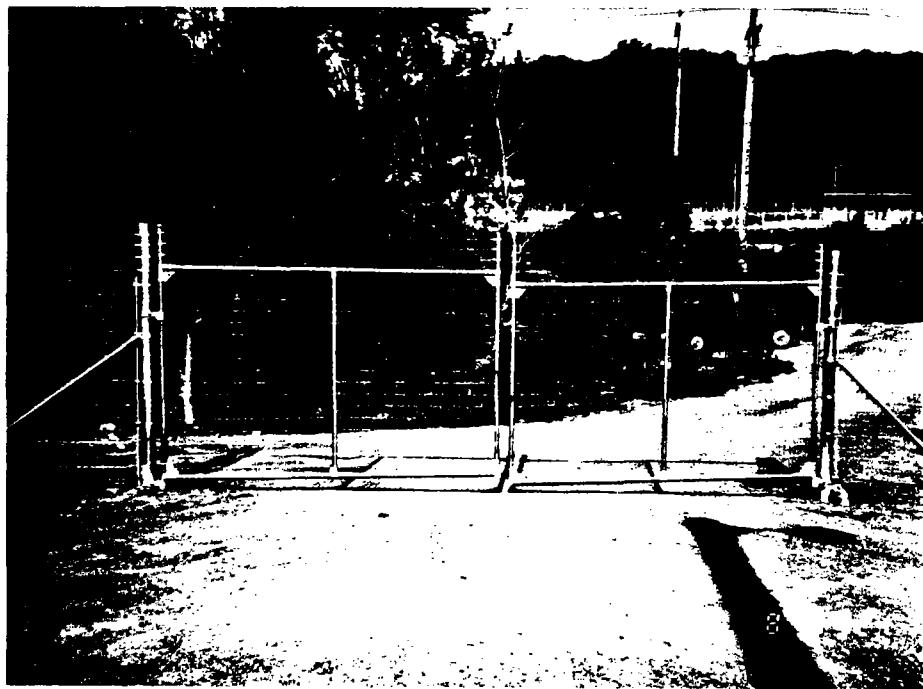
Photograph No. 4 Construction of temporary roads around perimeter of the reservoir.



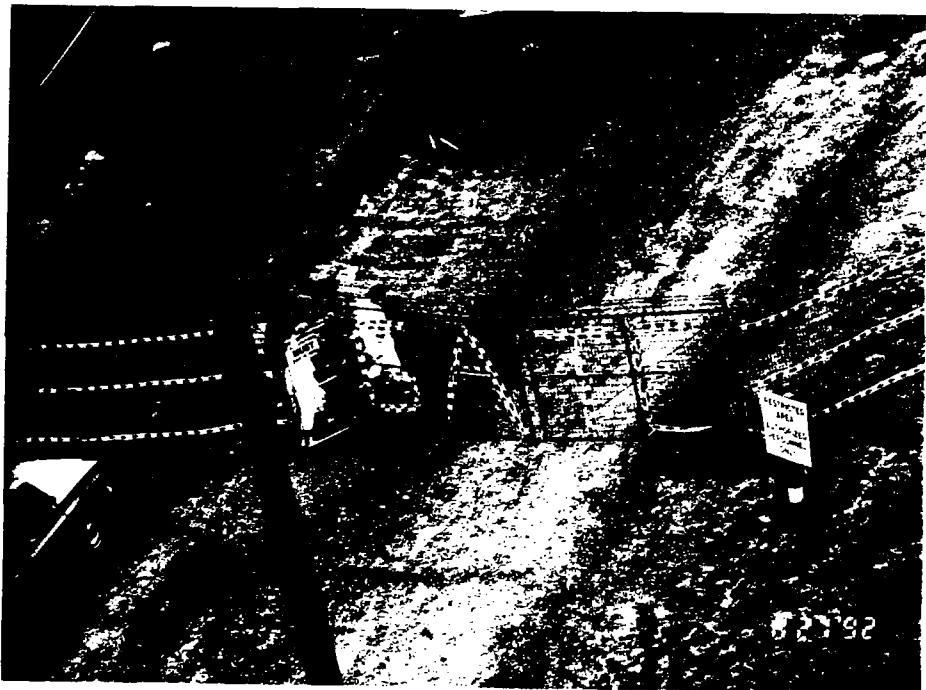
Photograph No. 5 Warning signs near the south boundary of the site.



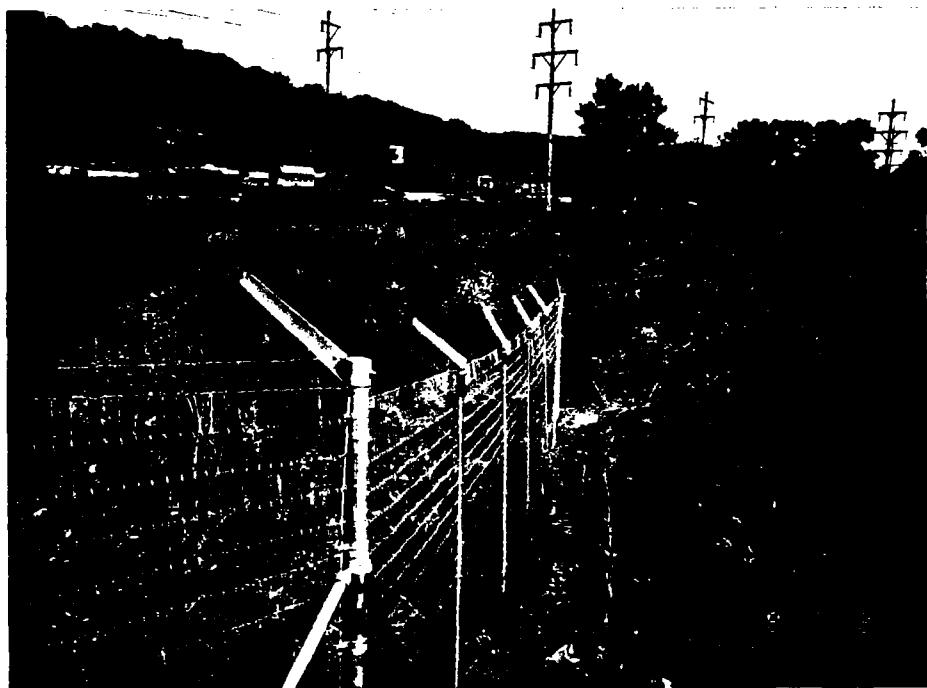
Photograph No. 6 Warning signs of overhead power lines.



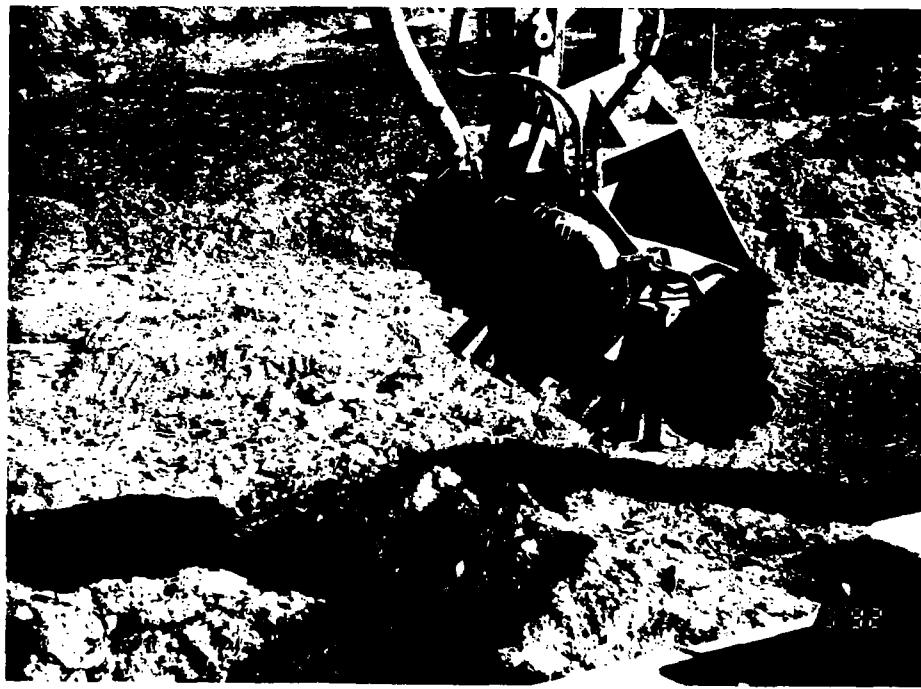
Photograph No. 7 West security gate.



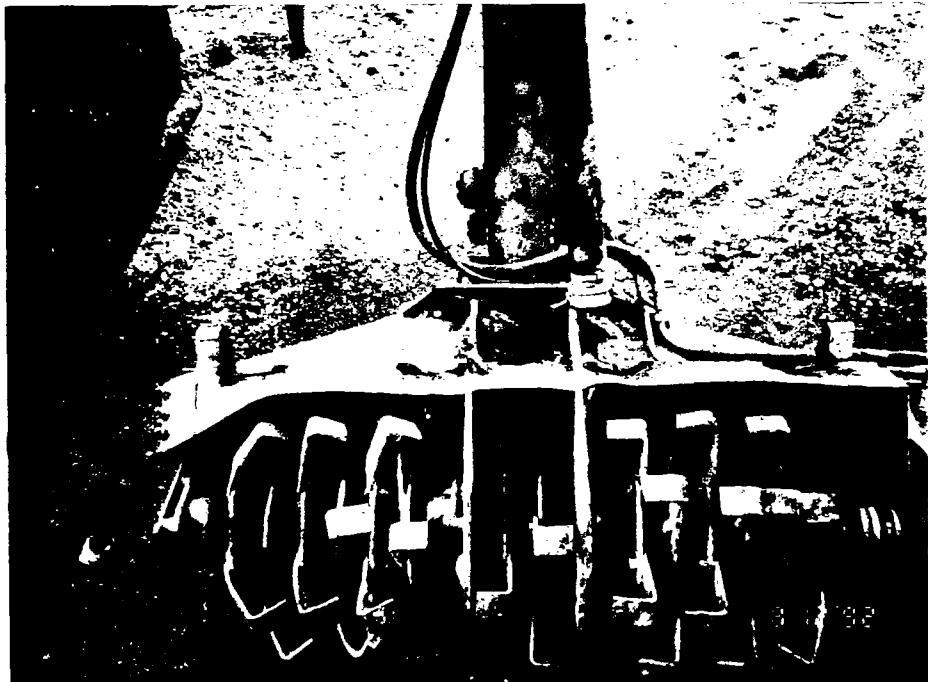
Photograph No. 8 South security gate.



Photograph No. 9 Security fence along west boundary line.



Photograph No. 10 Mixer head and additive feed lines.



Photograph No. 11 Mixer head prior to injection.



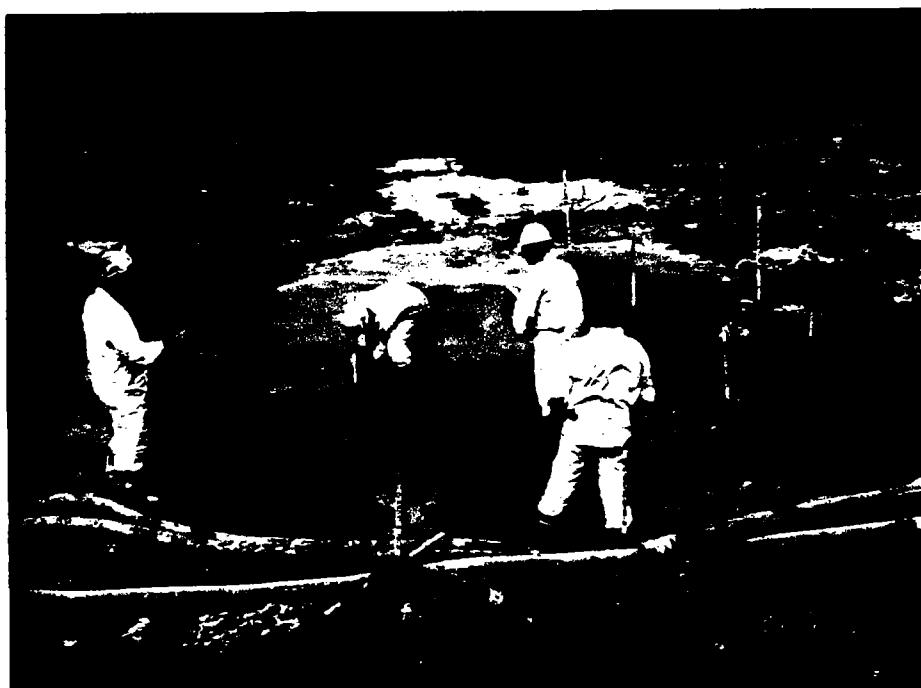
Photograph No. 12 Additive truck.



Photograph No. 13 Installation of 20 foot grid system by ERM-North Central and Clark Engineering.



Photograph No. 14 Installation of 20 foot grid system by ERM-North Central and Clark Engineering.



Photograph No. 15 Performance sampling during performance trials by ERM-North Central and PDC.



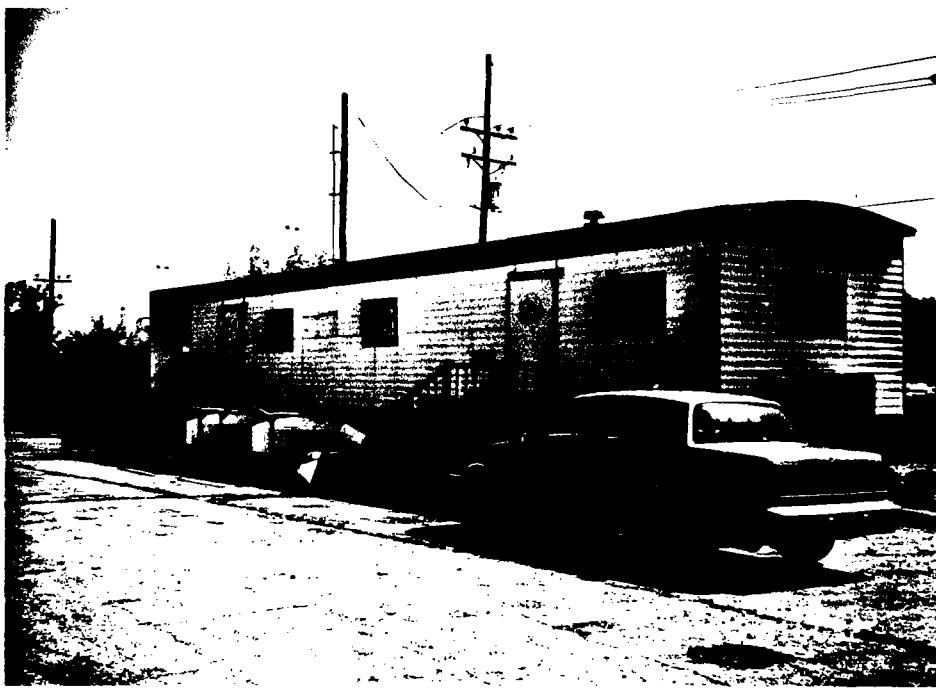
Photograph No. 16 Performance sampling equipment decon station. (summer conditions)



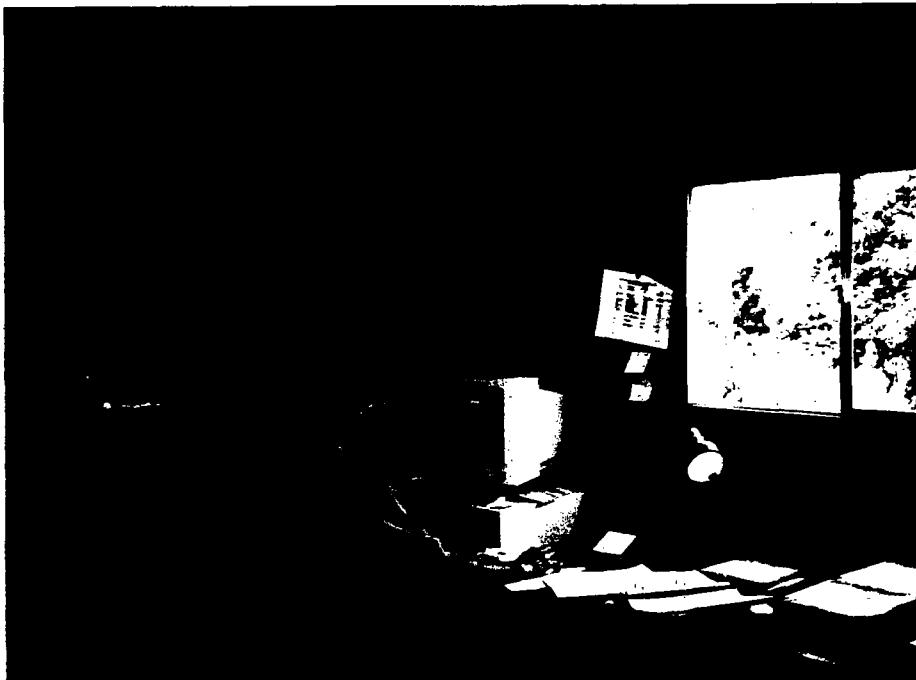
Photograph No. 17 Initial wash of equipment. Water discharges into Retention Reservoir.



Photograph No. 18 Distilled water rinse and re-attaching cutting tips.



Photograph No. 19 On-site laboratory trailer. (ERM-North Central site office/Daily Analytical Laboratory)



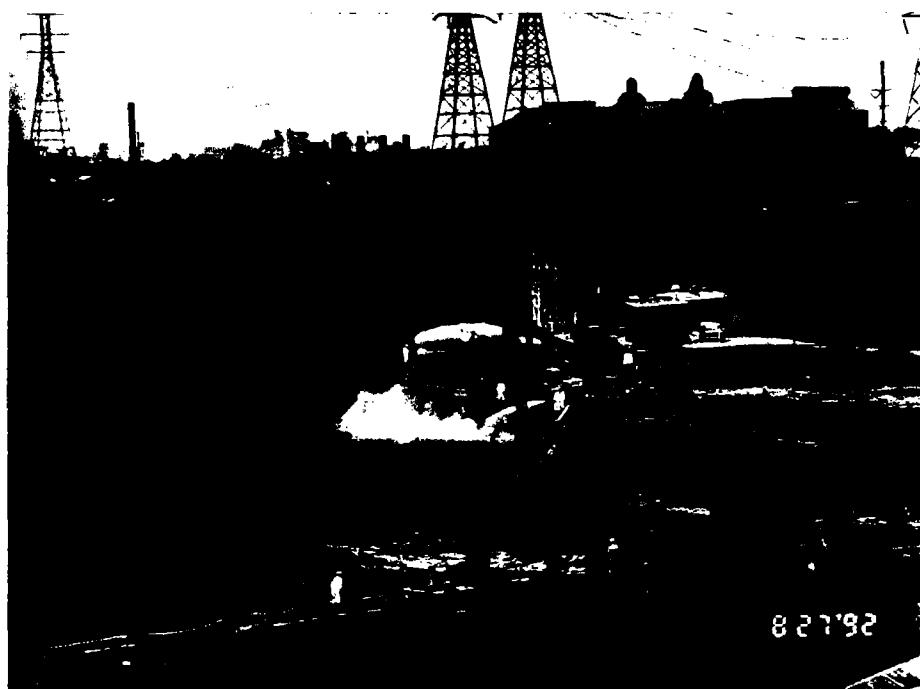
Photograph No. 20 ERM-North Central site office inside on-site laboratory trailer.



Photograph No. 21 Daily Analytical laboratory space inside the on-site laboratory trailer.



Photograph No. 22 Overview of the Retention Reservoir during performance trials.



Photograph No. 23 Injection and mixing of additive during performance trials.



Photograph No. 24 Injection of additive through mixer head.



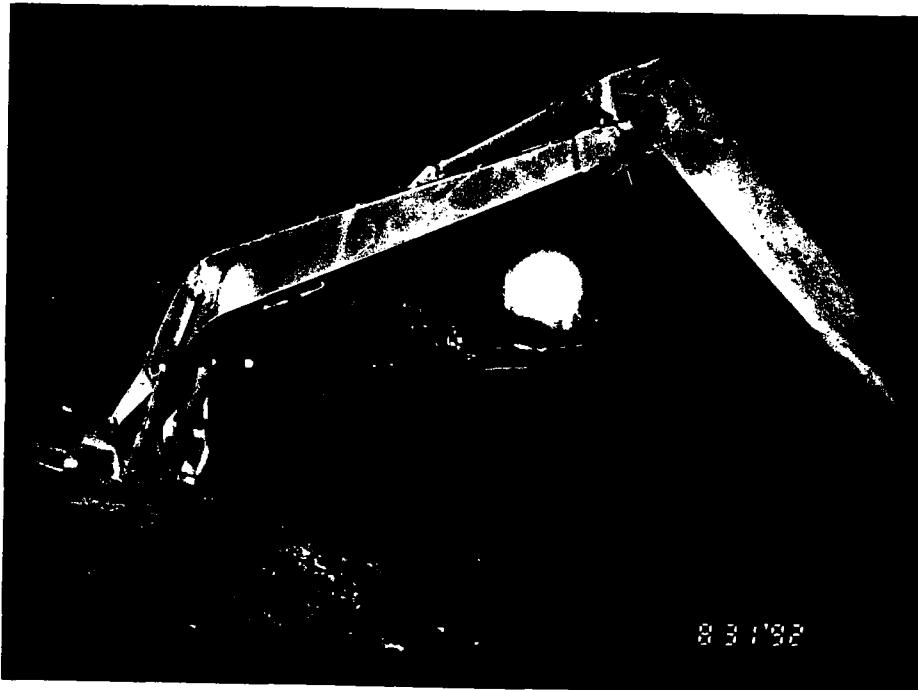
Photograph No. 25 Close-up of injection through mixer head.



Photograph No. 26 Truck mats used to mat out onto soft material.



Photograph No. 27 Night shift preparing for additive injection.



Photograph No. 28 Night shift injecting additive from the south-west temporary road.



Photograph No. 29 Pre-mixing of sediments with the smooth bucket from the north-east finger levee.



Photograph No. 30 Removal of north temporary road. Near end of treatment activities in that area.



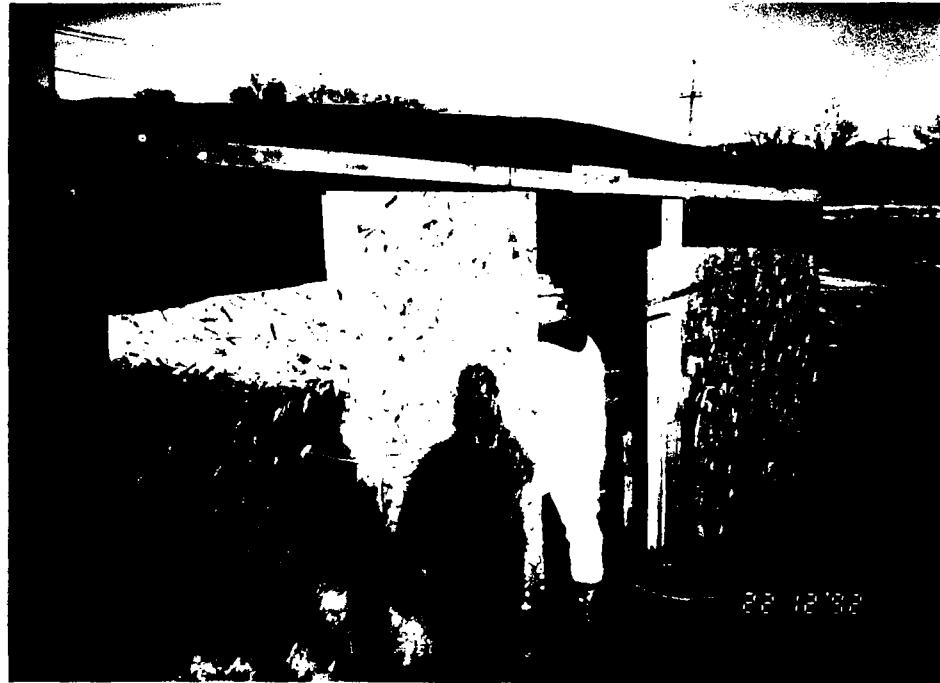
Photograph No. 31 Performance sampling from sampling platform used to sample material with low bearing capacity.



Photograph No. 32 Performance sampling team.



Photograph No. 33 Surveying in sample points during performance sampling.



Photograph No. 34 Performance sampling equipment decon station. (winter conditions)



Photograph No. 35 Retention Reservoir after completion of remediation activities.



Photograph No. 36 Special waste container on the left of the gray trailer.
Refuse container on the right of the gray trailer.

**USEPA DELISTING PETITION
FOR
KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS**

**APPENDIX A
TO
ADJUSTED STANDARD PETITION**

ATTACHMENTS 2, 3, and 4

August 2, 1993

**USEPA DELISTING PETITION
FOR
KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS**

**APPENDIX A
TO
ADJUSTED STANDARD PETITION**

ATTACHMENT 2

August 2, 1993

Michael N. Cameron
ENVIRONMENTAL TECHNICIAN
PDC Technical Services, Inc.

AREAS OF SPECIALIZATION: Soil and Groundwater Sampling
Field Documentation
Geologic Evaluations
Geotechnical Laboratory Testing

EDUCATION: B.S. Geology 1989
Western Illinois University
Macomb, Illinois

Specialized Training
40-Hour Hazardous Waste Site Safety Training (OSHA 1910.120)
Intermediate AutoCAD
Computer Graphics, Graduate Courses in geology, Purdue University.

EMPLOYMENT HISTORY: *Exploration Field Assistant* Summer 1988
N.L. Archibald, Economic Geologist
Macomb, Illinois

BACKGROUND / EXPERIENCE: Mr. Cameron has performed field oversight duties for numerous environmental projects including; logging soil borings, installation of monitor wells, excavation of USTs and contaminated soils.

He has also conducted routine monitoring which includes measurement of water level and groundwater sampling, as well as using specialized equipment such as oil-interface probes and data-loggers for aquifer hydraulic conductivity testing.

Mr. Cameron has performed standard geotechnical tests to determine the engineering properties of soil and trained new technicians.

Additionally, he has assisted project managers with field documentation, preparation of technical reports and Client's applications for reimbursement from State programs. Mike also assists with report production using manual and AutoCAD drafting techniques.

Kurt C. Stepping

Title: Chief Chemist

Project Assignment: Co-management of Laboratories
Chief Chemist/Manager of Wet Chemistry,
Trace Metals, Trace Organics and Field Sampling Operations

Years experience: Starting Date with DAL: March, 1980
Years with other firms: 1

Education: Degree(s)/Year/Specialization
B.A., Bradley University/1980/Chemistry

Active Registration: Discipline/Year First Registered
Heart of Illinois Water Pollution Control Operators/1985
American Chemical Society/1986
Illinois Section of Water Pollution Control Federation/1987
Illinois EPA Class K Certified Wastewater Operator/1991

Other Experience and Qualifications:

Prior to receiving his undergraduate degree, Mr. Stepping was employed with Daily Analytical, part-time, for several months. He had also been employed as the Chief Chemist for the Chillicothe Sanitary District for one year. Upon earning his B.A. in Chemistry, Mr. Stepping began as a full-time chemist for Daily Analytical.

He has acquired a diverse background knowledge of routinely performed physical/chemical parameters in both Inorganic and Trace Metal chemistry including instrument setup and detailed troubleshooting.

He had supervised the Inorganic Chemistry and Trace Metals sections at Daily Analytical but currently manages these two sections in addition to the Field Sampling section and the Trace Organics section with the area supervisors. He has been assigned to the position of Chief Chemist since March of 1988. This includes overall management of inorganic, trace metals, trace organics and field sampling operations.

Mr. Stepping has conducted wastewater treatment plant laboratory setup/training/inspections with his vast experience in this field.

Scott D. Schoenwetter

Title: Staff Chemist

Project Assignment: Wet Chemistry

Years experience: Starting Date with DAL: February, 1993
Years with other firms: 0

Education: Degree(s)/Year/Specialization

B.S., Olivet Nazarene University/1991/Geology

Active Registration: Discipline/Year First Registered

Other Experience and Qualifications:

Mr. Schoenwetter works in the wet chemistry section of the lab where he performs a variety of analytical procedures. Scott has participated in several safety training courses and is a member of the 1ST Aid Team at Daily Analytical.

Before joining Daily Analytical, Mr. Schoenwetter was a student teacher of geology labs while taking undergraduate and graduate level courses at Olivet Nazarene and Southern Illinois University, respectively.

Michael J. Quinlan

Title: Staff Chemist

Project Assignment: Field Sampling and Wet Chemistry

Years experience: Starting Date with DAL: October, 1991
Years with other firms: <1

Education: Degree(s)/Year/Specialization
B.S., MacMurray College/1990/Biology Education

Active Registration: Discipline/Year First Registered

Other Experience and Qualifications:
Mr. Quinlan works in both the wet chemistry and field sampling sections of the laboratory. His duties include analyzing samples for various parameters, preparing and cleaning of sampling equipment, and the collection of environmental samples.
Prior to joining Daily Analytical, Mr. Quinlan worked in the Quality Control Department of Midwest Grain Products in Pekin, IL. Mike also has student teaching experience and a State of Illinois teaching certificate in Biology.

PROFESSIONAL PROFILE
Rebecca Teismann

TITLE: Project Manager

ACADEMIC ACCOMPLISHMENTS:

University of Cincinnati
A.S. Environmental Chemistry

MAJOR AREA OF EXPERTISE:

Environmental safety assessments, method development, environmental laboratory samples analysis, technical data review, client relations and project management.

SUMMARY OF EXPERIENCE:

Over 19 years of laboratory experience in the environmental, pharmaceutical and manufacturing areas.

PROFESSIONAL EXPERIENCE:

1992 to Present IEA-North Carolina, Inc.

Position Project Manager

Responsibilities

Responsible for placing sample bottle orders, communicate to lab any special client needs (detection limits, protocols, report formats). Resolve project discrepancies, review project folders after log-in, answer technical questions and give advice on method options. Monitor status of projects in lab and during review, provide assistance with technical review, help with data interpretation and review invoices.

1990 to 1992 IEA-North Carolina, Inc.

Position Client Account Representative

Responsibilities

Ensured complete service to the client. Provided the link between the client and the laboratory.

1989 to 1990 IEA-North Carolina, Inc.

Position Technical Support Representative

Responsibilities

Ensured the accuracy and conformance of sample results prior to data release.

1987 to 1989 IEA-North Carolina, Inc.

Position GC/MS Operator

Responsibilities

Performed routine and CLP sample analysis via GC/MS and maintained quality control.

1986 to 1987 Clayton Environmental Consultants
 Atlanta, Georgia

Position Quality Control Technologist

Responsibilities

Developed and coordinated all laboratory quality assurance/quality control functions. Asbestos air monitoring and sample analysis.

1984 to 1986 Glaxo, Inc.
 Zebulon, North Carolina

Position Laboratory Technician

Responsibilities

Determined the stability of drug products under various time, temperature and humidity conditions through sample analysis.

1981 to 1984 The Proctor and Gamble Company
 Cincinnati, Ohio

Position Human & Environmental Safety Technician

Responsibilities

Initiated and managed human and environmental safety tests and to interpret their results.

1978 to 1984 The Proctor and Gamble Company
 Cincinnati, Ohio

Position Skin Safety Field Supervisor

Responsibilities

Conducted and supervised skin testing on human volunteers in order to determine the skin sensitivity potential of detergent products.

1976 to 1978 The Proctor and Gamble Company
 Cincinnati, Ohio

Position Methods Development Technician

Responsibilities

Developed methods used in routine testing of detergent products, by products and raw ingredients.

1975 to 1976 The Proctor and Gamble Company
 Cincinnati, Ohio

Position Analytical Laboratory Technician

Responsibilities

Analyzed various stages of detergent products.

1972 to 1975 **PEDCO Environmental Specialists, Inc.**
Cincinnati, Ohio

Position Environmental Laboratory Technician

Responsibilities

Analyzed air, water and wastewater samples for various environmental parameters.

SPECIALIZED TRAINING:

GC/MS Operation and Interpretation (1987)
NIOSH 582 Sampling and Evaluation of Airborne Asbestos Dust (1987)
Waters HPLC Training (1985)
Hewlett Packard Lab Computer Training (1985)

Doc#HRR09500.NET

PROFESSIONAL PROFILE

Toivo E. Niemi

TITLE: Quality Assurance Manager

ACADEMIC ACCOMPLISHMENTS:

Cornell University
B.A. Chemistry

University of Virginia
M.S. Environmental Sciences

MAJOR AREA OF EXPERTISE:

Environmental Laboratory Management
Environmental Chemistry

SUMMARY OF EXPERIENCE:

Mr. Niemi is an environmental chemist with more than ten years experience. As a graduate-level chemist and environmental scientist, he has in-depth knowledge of the operation and maintenance of GC and GC/MS systems. Mr. Niemi is highly skilled in the administration and operation of GC and GC/MS systems with emphasis on quality control requirements and data evaluation. Highly knowledgeable of mass spectral data interpretation through the analysis and review of instrument data systems and the preparation of final data reports.

PROFESSIONAL EXPERIENCE:

1991 to Present IEA-North Carolina, Inc.

Position Quality Assurance Manager

Responsibilities

Provides input and aids the continuing development of the Corporate QA Program and function as liaison between corporate QA and facility staff. Monitors the continuing compliance with the Corporate QA Program at the local facility. This includes preparing reports to lab management and corporate QA on lab performance in areas such as PE results, blind and double blind samples, holding times, report turnaround, corrective actions and data challenges. Coordinates all inquiries related to quality issues and follows up on corrective action as necessary. Resolves client/laboratory disputes as appropriate. Maintains an awareness of all corrective actions underway and ensure the existing process is fully functional.

1989 to 1991 IEA-North Carolina, Inc.

Position Manager, Chromatography Department

Responsibilities

Responsible for the timely, accurate, and efficient analysis of client samples prepared by the GC and GC/MS departments. Developed and maintained training programs for the chromatography staff.

Administered quality control requirements defined for the GC and GC/MS analysis. Evaluated sample data generated.

1984 to 1989 IEA-North Carolina, Inc.

Position Mass Spectral Interpretation Specialist

Responsibilities

Analyzed and reviewed instrument data system. Evaluated computerized matches of unknown data against reference library data using electron impact ionization. Identified hardware and software instrument problems through the mass spectral data of standard reference compounds. Prepared final analytical data reports.

SPECIALIZED TRAINING:

GC/MS Operation and Maintenance - Finnigan Corporation, 1985

GC/MS Operation and Maintenance - Extrel Corporation, 1987

PROFESSIONAL AFFILIATIONS:

American Chemical Society

PUBLICATIONS:

McLafferty, Fred W., Peter J. Todd, Donald G. McGilvery, Michael A. Baldwin, Frank M. Bockhoff, Gregory J. Wendell, Michael R. Wixom and Toivo E. Niemi. "MS/MS: A New Separation/Identification Technique for Complex Mixtures." Advances in Mass Spectrometry 8B, 1589-96.

PROFESSIONAL PROFILE

William (Bill) Drago

TITLE: Laboratory Director, North Carolina

ACADEMIC ACCOMPLISHMENTS:

B.S. University of Alabama

Graduate studies toward M.S. Civil Engineering, Polytechnic Institute of New York

MAJOR AREA OF EXPERTISE:

Inorganic Chemistry

Operations Management

Project Management

SUMMARY OF EXPERIENCE:

Mr. Drago has 18 years in the environmental laboratory field as a Laboratory Director, Laboratory Manager, Chemist and Laboratory Technician. Part of the start up team for a national environmental laboratory.

PROFESSIONAL EXPERIENCE:

1992 to Present IEA-North Carolina, Inc.

Position North Carolina Laboratory Director

Responsibilities

Responsible for directing the laboratory's technical operations, laboratory personnel and ensuring the quality assurance standards. Provides technical support to staff and clients.

1988 to 1992 Gulf States Analytical, Inc.

Houston, Texas

Position Laboratory Manager

Responsibilities

Responsible for the management of all laboratory operations which included the areas of GC, GC/MS, Sample Administration, Metals, Organics Extractions and Wet Chemistry. Project Manager of Gulf States' largest client. Aided in the planning and design of the new laboratory facility.

1985 to 1988 Malcolm Pirnie, Inc.
White Plains, New York

Position Laboratory Manager

Responsibilities

Prepared and managed operating budget, lease budget and capital budget. Implemented and managed laboratory services marketing plan. Developed and maintained GLP Manual and QA/QC plans. Conducted chemical analysis utilizing GC, and AA. Maintained and obtained laboratory certifications.

1978 to 1985 American Water Works, Inc.
 Greenwich, Connecticut

Position Laboratory Manager

Responsibilities

Managed a regional network utility laboratory. Conducted analysis utilizing GC, AA and Wet Chemical techniques. Acquired and maintained laboratory certifications.

1976 to 1978 Geological Survey of Alabama
 University, Alabama

Position Chemist

Responsibilities

Responsible for the collection and analysis of samples for a special US Army Corps of Engineers project. Conducted analysis utilizing GC and AA.

SPECIALIZED TRAINING:

Graduate of Phillip Crosby and Associates Quality Improvement Process Management College, 1991
Numerous seminars and courses pertaining to management issues.

PROFESSIONAL AFFILIATIONS:

American Chemical Society
American Water Works Association
Water Pollution Control Federation
Water and Wastewater Analysts Association

PUBLICATIONS:

Awarded U.S. Patent Number 4411157 for "Contamination Free Purge and Trap Vessel."

PROFESSIONAL CERTIFICATIONS:

Drinking Water Plant Operator, New York and Connecticut

Certified Laboratory Manager for the states of New Jersey, Florida, California, Wisconsin, Utah, and Oklahoma

PROFESSIONAL PROFILE
Donald Stogner

TITLE: Inorganic Lab Manager

ACADEMIC ACCOMPLISHMENTS:

North Carolina State University
B.S. Chemistry
Minor, Computer Science

MAJOR AREA OF EXPERTISE:

Inorganic Chemistry

SUMMARY OF EXPERIENCE:

Mr. Stogner has experience in several major areas of inorganic chemistry including ICP/MS, ICP-AES, GFAAS, Wet Chemistry, UV/Vis Spectroscopy and Cold Vapor AA.

PROFESSIONAL EXPERIENCE:

1991 to Present IEA, Inc.
North Carolina

Position Manager, Inorganic Laboratory

Responsibilities

Responsible for managing both the wet chemistry laboratory as well as the metals area. Reviews data from labs and assesses quality and methodology. He is responsible for all aspects of both laboratory areas.

1985 to 1991 CompuChem Laboratories
RTP, North Carolina

Position Supervisor/Chemist Inorganic Laboratory

Responsibilities

Responsible for analysis of samples and supervision of other chemist in inorganic lab. Responsible for problem solving and data quality. Responsible for all aspects from sample prep to final report.

SPECIALIZED TRAINING:

Various seminars on ICP/MS, ICP-AES, GFAAS, Air Monitoring and Instrument Maintenance

PROFESSIONAL PROFILE
Dawn Alesia Casto

TITLE: GC/MS Volatiles Laboratory Supervisor
Mass Spectral Interpretation Expert

ACADEMIC ACCOMPLISHMENTS:

Western Carolina University
B.S. in Chemistry and Biology, 1986

North Carolina State University
Coursework in Economics, Present

MAJOR AREA OF EXPERTISE:

Five years of environmental laboratory experience.

Analysis of environmental samples for volatile organics by GC and GC/MS.

Analysis of environmental sample extracts for pesticide, polychlorinated biphenyl, and herbicide residues.

Generation of EPA CLP Data packages including forms generation.

SUMMARY OF EXPERIENCE:

Ms. Casto has over five years of environmental laboratory experience. Her experience ranges from bench level wet chemistry through chromatographic instrumentation analyses. She is proficient in the operation of both gas chromatographs and mass spectrometers for the analysis of organic analytes, including volatile organics, semi-volatile organics, pesticides, petroleum hydrocarbons and polychlorinated biphenyls. Ms. Casto also has experience in the preparation and generation of CLP data packages.

PROFESSIONAL EXPERIENCE:

1991 to Present IEA-North Carolina, Inc.

Position Supervisor - GC/MS Volatiles Laboratory

Responsibilities

All technical efforts of the volatile laboratory to meet all the requirements and conditions of the EPA CLP Statement of Work. Supervises and trains GC/MS personnel in the volatiles laboratory. Management, including production/coordination of sample analyses. Reviews volatile data packages to ensure the validity and completeness of the data. Interprets mass spectra to verify identification of detected analytes.

1991 to 1991 IEA-North Carolina, Inc.

Position GC/MS Assistant Supervisor

Responsibilities

Reviewed volatile and semi-volatile data packages. Assisted in the training for GC/MS operators. Duties included EPA CLP forms generation and preparation of completed data packages.

1989 to 1989 IEA-North Carolina, Inc.

Position GC/MS Operator

Responsibilities

Responsible for analysis of environmental sample for volatile organics. Performed preventative maintenance as required. Prepared analytical reference standards and was responsible for quality assurance of generated data.

1987 to 1989 IEA-North Carolina, Inc.

Position GC Analyst

Responsibilities

Responsible for analysis of environmental sample extracts for pesticide, polychlorinated biphenyls, and herbicide residues. Analyzed environmental samples for volatile aromatics and volatile halocarbons by purge-and-trap techniques.

1986 to 1987 IEA-North Carolina, Inc.

Position Chemical Analyst

Responsibilities

Responsible for environmental analysis by wet chemistry techniques. Techniques included titration and ion-specific probe, and Karl-Fischer. BOD analysis of environmental samples for NPDES permits.

SPECIALIZED TRAINING:

Data system training - Spectra-Physics, 1988

Analytical Gas Chromatography - J&W Scientific, 1989

Swagelok Training - Raleigh Valve and Fitting, 1991



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DAVID R. BLYE

QUALITY ASSURANCE SPECIALIST

FIELDS OF COMPETENCE

- o Analytical data validation.
- o Environmental chemistry.
- o Assessment of waste disposal problems.
- o Environmental impact analysis.
- o Development of sampling and analytical plans.
- o Methods of analysis for organic compounds and inorganic constituents.
- o Analytical and sampling quality assurance.
- o Analytical methods development.

CREDENTIALS

A.A.S., Ecology and Environmental Technology, Paul Smith's College of Arts and Science, 1981.

B.S., Environmental Chemistry, SUNY College of Environmental Science and Forestry, 1983. Cum Laude.

Certification for OSHA Hazardous Waste Requirements under 29 CFR 1910.120.

EXPERIENCE SUMMARY

Mr. Blye's more than nine years of experience in the field of environmental chemistry has included the performance of field data collection and environmental sampling and the planning, development and execution of field sampling and analytical projects. He specializes in the development of field procedures for the collection of representative ground water, surface water, soil, air and other multi-media samples and the interpretation of organic and inorganic data. He has generated site-specific sampling plans for more than 200 sites, including Quality Assurance Project Plans (QAPjP) for more than 37 state or federally supervised CERCLA, RCRA or DOD sites.

He has extensive experience in U.S. EPA organic and inorganic analytical methodology and analytical data validation. Mr. Blye has validated data analyzed according to 40 CFR part 136 requirements (600 series), drinking water regulations (500 series), RCRA requirements (SW846), and CERCLA/SARA requirements (CLP SOWs). He has overseen the validation efforts for more than 300 projects. He has developed internal and external training programs to teach data validation procedures according to U.S. EPA requirements.

Mr. Blye is also experienced in auditing laboratory facilities to evaluate compliance with analytical protocols and QAPjPs and to determine the facilities' capabilities. He has audited more than 25 laboratories, nine of which were participants in the CLP.

He is familiar with data management procedures for storing, retrieving and reporting field and analytical data. He has worked closely with several laboratories to identify specifications for delivery of analysis results electronically to facilitate data table production.

Prior to joining ESI, Mr. Blye was Quality Assurance Manager for a nationally affiliated environmental consulting firm. He was responsible for directing laboratory subcontractor analytical services, special analytical projects, field and laboratory quality assurance/quality control programs, and analytical data validation services. He managed and directed a staff of eleven quality assurance chemists whose primary duties were field quality assurance procedure development, analytical data management and analytical data validation.

PROFESSIONAL AFFILIATIONS

American Chemical Society

American Association for the Advancement of Science

National Environmental Laboratory Accreditation Coalition



KEY PROJECTS

- Evaluated impact of volatile organic compound contamination originating from an NPL site on 25 residential wells in the local vicinity. Assisted in design engineering, installation and monitoring point-of-entry treatment systems selected as contaminant remediation.
- Performed analytical data validation for numerous site investigations to determine analytical data outliers and data quality/usability.
- Prepared, documented and implemented Quality Assurance Project Plans for numerous state and federally led site investigations (CERCLA, RCRA, ECRA, DOD, USATHAMA and NEESA).
- Evaluated the validity of analytical data collected for use in the Hazard Ranking Score for selection of a Pennsylvania site for the NPL. The primary issue concerned the use of soil gas analyses performed using a field portable gas chromatograph.
- Interpreted volatile organic analytical data to identify the existence or potential existence of biological degradation of volatile compounds for several Pennsylvania and New Jersey site investigations.
- Developed a field methanol extraction procedure for soil samples to yield a more accurate collection of volatile organic compound data and to assist in defining background conditions prior to the start-up of site remediation. The methanol extract was analyzed following the CLP medium-level volatile protocol.
- Developed field soil gas survey procedures to monitor for volatile organic compounds using both organic vapor analyzers and portable gas chromatographs. Managed several soil gas surveys for clients as a means to inexpensively evaluate site background conditions and to cost-effectively implement traditional investigation methods.
- Directed analytical subcontract services for a major environmental consulting firm totaling in excess of \$2.5 M annually. Responsible for all contracting, price negotiations and performance audits.
- Developed a Quality Assurance Project Plan for a large multi-national company to specify quality assurance/quality control requirements during the conduct of an Environmental Impact Statement (EIS) in Spain. A United Kingdom-based laboratory was audited and procedures were developed for the laboratory to conform to U.S. EPA analytical procedures. This project required significant coordination with the project team and laboratory to allow for the successful completion of the analytical program.



KEY PROJECTS (Cont.)

- Developed a Quality Assurance Project Plan for a large multi-national company to specify quality assurance/quality control requirements for a field investigation conducted in support of a Feasibility Study at a chemical manufacturing facility located in Wales, United Kingdom. Specific analytical requirements were prepared to allow the United Kingdom-based laboratory to comply closely with U.S. EPA analytical procedures.
- Developed analytical requirements for the analysis of propylene glycol, ethanol and glycerine in support of a stack emission test sampling program for a major tobacco processing company.
- Provided sampling and analytical oversight services to an insurance adjustor relative to contaminant remediation of tenant property as a result of a major high-rise fire which occurred in Philadelphia, PA. Fire soot was found to be contaminated with dioxins and PCBs.
- Developed a strict ground water, surface water and soil monitoring and analytical program to comply with a New Jersey State Administrative Consent Order for a major chemical manufacturer. Over 125 ground water samples were collected on an annual basis and monitored for various volatile organic compounds, total phenols and cumene. Sampling and analytical programs were developed to collect data necessary for a multi-disciplinary project team to assess potential risk at the site and develop remedial measures.
- Provided turn-key analytical services for a large chemical manufacturer according to State permit conditions during the installation of a deep Injection Well at a phenol/acetone production plant. The analytical data subsequently indicated phenol to be present at a depth of approximately 3,000 feet. The client was identified by the State regulatory agency as the potential responsible party for the contamination. Mr. Blye has reviewed and validated the complex organic and inorganic data collected from the injection well formation fluids for use by various technical experts and attorneys. He provided expertise in the analysis of environmental samples for use in the litigation.
- Provided analytical data validation services and litigation support to a West Virginia law firm. The law firm's client was filed with criminal felony charges by the U.S. Attorney General for alleged illegal disposal of a RCRA hazardous waste. Reviewed the Extraction Procedure (EP) Toxicity analysis data generated by the State of West Virginia for adherence to proper protocol and evaluated the sample collection procedures used.

PUBLICATIONS

"Point of Entry Systems for Removal of VOCs." Presented at the American Society of Civil Engineers Environmental Engineering Specialty Conference, Orlando, Florida, July 1987.





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ROCK J. VITALE

QUALITY ASSURANCE SPECIALIST

FIELDS OF COMPETENCE

- Utilizing theoretical and practical knowledge of all facets of quantitative analysis for organic and inorganic pollutants by EPA methodologies.
- Determining the adequacy of analytical data generated to support RI/FS, ECRA (property transfers), RCRA closures, RCRA Permit B, etc.
- Preparing Quality Assurance Project Plans (QAPPs).
- Serving as technical liaison between laboratories and consultants.
- Designing specific requirements and specifications for analytical services.
- Training and managing data review staff.
- Understanding the sampling design, sampling protocols, data validation and documentation for litigation, analytical/environmental chemistry and multimedia fate and transport mechanisms of pollutants.

CREDENTIALS

- B.S., Environmental Science and Biology, Marist College, New York, 1981.
Additional Undergraduate Chemistry credits to satisfy B.S., Chemistry, Villanova University, Pennsylvania and Rider College, New Jersey 1982-1985.
M.S., Chemistry, Villanova University, Pennsylvania (Candidate).

EXPERIENCE SUMMARY

Mr. Vitale has four years analytical experience performing analyses for organic and inorganic contaminants in a variety of media by instrumental and classical methods, including research and development of analytical methodologies. He attended many analytical conferences as a technical representative marketing an environmental laboratory.

In addition, Mr. Vitale was the Quality Assurance Manager for a large environmental consulting firm with 26 offices nationwide. He designed and implemented a quality assurance and data validation program for all RI/FS, site inspections and RCRA closures. His responsibilities also included the preparation of QAPPs for Superfund studies in EPA Regions I, II, III and V. He also trained and managed a staff of five data reviewers. Mr. Vitale served as technical liaison between PRPs, laboratories and/or state/federal agencies.

Prior to that position, he had three years experience as a quality assurance chemist with a primary EPA Superfund contractor for U.S. EPA Region III. He provided quality assurance reviews for over 300 EPA site inspections, based upon rigorous examination of GC, GC/MS (high and low resolution), GFAA and ICP data. He has coauthored and provided peer review comments on several documents on the subject of data validation for both state and federal agencies.

PROFESSIONAL AFFILIATIONS

American Chemical Society
American Institute of Chemists

KEY PROJECTS

- A contributing author of the "Functional Guidelines for Organic Data Validation" prepared for EPA Region III and currently used on a nationwide basis.
- Project chemist for over 300 CERCLA site inspections for the characterization of environmental samples obtained in and around landfills/dump sites. Quality assurance reviews for all organic and inorganic analytical data generated by 60 contract laboratories were submitted to EPA.
- Conceived, designed and implemented a comprehensive quality assurance program for a major environmental engineering firm. This included designing quality control requirements for all sampling investigations, a complete Chain-of-Custody and a sample tracking program and the performance of quality assurance reviews for all analytical data generated from sampling investigations, several of which involved litigation.
- Prepared many QAPPs, which are required for all Remedial Investigation/Feasibility Studies (RI/FSs). The preparation of these plans included providing input for sampling design and negotiations with the lead agency.
- Solicited and contracted five major laboratories to perform analytical services for a large environmental engineering firm (including 26 branch and affiliate offices). Contract negotiations involved designing specific requirements for laboratory performance. Acted as technical liaison between the laboratory and the consultant. Established specialized analytical methodologies to achieve project-specific goals.

KEY PROJECTS (Cont.)

- Trained and supervised 22 quality assurance chemists in the areas of qualitative and quantitative data validation. In addition, conducted frequent technical assistance and training seminars for various consultant groups on the East and Gulf Coasts.
- Performed numerous laboratory audits at the request of several large corporations or the laboratories themselves. Provided critical comments, performance evaluation reports and recommendations for improvement.
- At the request of several large corporation PRP (Potentially Responsible Party) committees, critically reviewed state or EPA enforcement-led RI/FSs to determine if an appropriate level of quality assurance was performed according to SARA guidelines and if the analytical data were properly validated.
- Prepared analytical requirements for laboratory RFPs prior to the initiation of 16 CERCLA site inspections for specific compounds/constituents which were known site contaminants but for which they did not routinely analyze (i.e., phosphorus herbicides).
- Served as project chemist for several major remedial investigations in which more than 2,000 samples were obtained. Performed validation of all analytical data, provided on-going changes in sampling design and provided technical input for the recommendation of additional analytical parameters, data presentation and the final report to EPA.
- Set up and maintained a quality assurance/quality control program for an independent environmental laboratory. This program is necessary to sustain EPA drinking water certification.

PUBLICATIONS

United States Environmental Protection Agency (U.S. EPA). 1987. Functional Guidelines for Evaluating Organics Analyses With Modifications for Use Within Region III. Technical Directive Document No. HQ-8410-01. U.S. EPA Data Validation Work Group. Washington, D.C.

Vitale, R.J., O. Braids and R. Schuller. 1991. Ground-Water Sample Analysis. In: Practical Handbook of Ground-Water Monitoring. D.M. Nielsen, editor. Lewis Publishers, Inc., Chelsea, Michigan.



SEMINARS

"QAPP Design for Sampling and Analysis of Hexavalent Chromium in Various Media." Presented at the Hexavalent Chromium Analytical Methods Workshop, October 15, 1992, Industrial Health Foundation, Arlington, Virginia.

"Data Validation." Presented at the Quality Assurance in Environmental Monitoring Conference, November 18, 1992. New York Water Pollution Control Association, Inc. and Westchester Community College, Yorktown Heights, New York.

"Data Validation." Presented at the New York State Department of Environmental Conservation (NYSDEC), November 19, 1992, NYSDEC, Albany, New York.

"Cost-Effective Site Investigations." Presented at the Controlling the Costs of Site Remediation Seminar, June 20, 1989, Environmental Resources Management-New England, Inc., Boston, Massachusetts.

"Laboratory Audits." Presented at the Merck & Co., Inc. 1991 Environmental Conference, June 26, 1991, Merck & Co., Inc., Montreal, Canada.

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MEG A. CLARK

SENIOR QUALITY ASSURANCE CHEMIST

Education

- M.S. Degree in Organic Chemistry, January 1991, University of Pennsylvania, Philadelphia, PA 19104.
- B.A. Degree in Chemistry, May 1989, Gettysburg College, Gettysburg, PA 17325. Senior laboratory project involved the synthesis of novel facially-capping ligands in order to prepare models for the binuclear iron protein Purple Acid Phosphatase. Skills were developed in spectroscopic techniques (¹H- and ¹³C-NMR, FT-IR, UV-VIS, GC/MS).

Work Experience

Senior Quality Assurance Chemist - Environmental Standards, Inc., 1220 Valley Forge Road, Valley Forge, PA 19482, from October 1992 to present. Responsibilities include senior technical review of data validation reports, project management, coordination and client contact, laboratory audits and data validation training of staff quality assurance chemists.

Quality Assurance Chemist - Environmental Standards, Inc., 1220 Valley Forge Road, Valley Forge, PA 19482 from February 1991 to October 1992.

Research Chemist - University of Pennsylvania Department of Chemistry, Philadelphia, PA 19104, from May 1990 to January 1991. Research efforts were directed toward the total synthesis of detoxin D₁. Skills were developed in spectroscopic and separation techniques (¹H-NMR, IR, flash column chromatography).

Teaching Assistant - University of Pennsylvania Department of Chemistry, Philadelphia PA 19104, from September 1989 to December 1990. Responsible for overseeing organic laboratory experiments in a classroom environment and grading laboratory experiments and examinations.

Skills and Training

Working knowledge in the operation of the following:

- Hewlett Packard 5890 GC/MS
- IBM/Bruker AF 250 FT-NMR
- IBM NR/80 FT-NMR
- Mattson Polaris/Icon FT-IR
- Perkin-Elmer 281B IR
- Perkin-Elmer 552 UV-VIS

Key Projects

- Performed analytical data validation for numerous site investigations to determine analytical data outliers and data quality/usability. Data reviewed include those for U.S. EPA Contract Laboratory Program (CLP) protocols, SW-846 Methods, Methods for the Chemical Analysis of Water and Wastes and the U.S. EPA Series 200 and 600 methods.
- Data validation project manager for several major U.S. EPA and NYSDEC site investigations. Duties include data log-in and tracking, technical assistance in data validation problems, review of quality assurance reports, tracking budgets for data package review and providing technical assistance to clients.
- Performed laboratory audit for major company to assess laboratory quality and reliability. The audit was based upon issues of good laboratory practices, laboratory quality control/quality assurance programs and analytical methods under NYSDEC ASP as requested by the client.



**USEPA DELISTING PETITION
FOR
KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS**

**APPENDIX A
TO
ADJUSTED STANDARD PETITION**

ATTACHMENT 3

August 2, 1993

G(1) F05(11)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(1) F05(11) Date: 5/13/93 Time: 16:00 am (pm)
Samplers and Affiliation: AMR/SEG

Total depth (ft): 66

0.0 ft 0.0 ft 0.0 ft

Sample Interval 0 - 3 ft

Recovery (ft): 1.2

Color: Dark gray/green block

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 8 0-1 ft 18 1-2 ft 20 2-3 ft

Observations:

Homogeneous

Sample Interval 3 - 6 ft

Recovery (ft): 1.2

Color: Dark gray/green block

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 18 3-4 ft 46 4-5 ft 40 5-6 ft

Observations:

Homogeneous

Sample Interval 6 - 9 ft

Recovery (ft):

Color:

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4-5

Recovery (ft):

Observations:

G(1) F05(12)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

5/13/93

Sample #: G(1) F05(12) Date: 5/13 Time: 15:55 am (pm)

Samplers and Affiliation: SE of 11MR

Total depth (ft): 6.6

0 ft 3 ft 0.0 upper

Sample Interval 0 - 3 ft

Recovery (ft): 2.2

Color: dark gray green

Moisture: dry moist wet (circle one)

Consistency: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 25 0-1 ft 37 1-2 ft 35 2-3 ft

Observations:

Homogeneous

Sample Interval 3 - 6 ft

Recovery (ft): 1.9

Color: dark gray green

Moisture: dry moist wet (circle one)

Consistency: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 28 3-4 ft 44 4-5 ft 46 5-6 ft

Observations:

Homogeneous

Sample Interval 6 - 9 ft

Recovery (ft):

Color:

Moisture: dry moist wet (circle one)

Consistency: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 5 - 6

Recovery (ft):

Observations:

G(2) H03(07)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(2) H03 (07) Date: 9/3/93 Time: 14:35 am pm
Samplers and Affiliation: HACI/SEG
Total depth (ft): 167
Soil over Organic

Sample Interval 0 - 3 ft

Recovery (ft): 2.6
Color: Olive Brown
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 4 0-1 ft 3 1-2 ft 0 2-3 ft
Observations:
Trace organic material

Sample Interval 3 - 6 ft

Recovery (ft): 1.5
Color: Olive Brown
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 3-4 ft 4-5 ft 5-6 ft
Observations:
Trace organic material

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 0-1
Recovery (ft):
Observations:

G(2) I06(09)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(2) I06(09) Date: 5/13/95 Time: 15:00 am pm
Samplers and Affiliation: HMR / SEG
Total depth (ft): 3.7 36 0CM 0.0

Sample Interval 0 - 3 ft

Recovery (ft): 3.0
Color: Black gray green
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 19 0-1 ft 19 1-2 ft 19 2-3 ft
Observations: Found gators

Sample Interval 3 - 6 ft

Recovery (ft): 2.0
Color: Black Gray Green
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 15 3-4 ft 4-5 ft 5-6 ft
Observations: Found gators

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 1-2
Recovery (ft):
Observations:

G (2) I08(18)⁰⁴

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G (2) I08(18)⁰⁴ Date: 5/13/83 Time: 14:37 am (pm)
Samplers and Affiliation: HMR JEG
Total depth (ft): 45

0.0

Sample Interval 0 - 3 ft

Recovery (ft): 2.0
Color: Dark olive gray
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 10 0-1 ft 22 1-2 ft 18 2-3 ft
Observations:
Homogeneous

Sample Interval 3 - 6 ft

Recovery (ft): 1.0
Color: Dark olive gray
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 17 3-4 ft 19 4-5 ft 5-6 ft
Observations:
Homogeneous

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 1-2
Recovery (ft):
Observations:

¹⁶
G(2) I08(0r)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(2) I08(0r)¹⁶ Date: 9/13 Time: 14:50 am (pm)
Samplers and Affiliation: HUB/JEG
Total depth (ft): 4.7

Sample Interval 0 - 3 ft

Recovery (ft): 1.2
Color: Dark grey green
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 13 0-1 ft 17 1-2 ft 17 2-3 ft
Observations: Homogeneous

Sample Interval 3 - 6 ft

Recovery (ft): 1.2
Color: Dark grey green
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 20 3-4 ft 15 4-5 ft 5-6 ft
Observations: Homogenous

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6.7 ft 7-8 ft 8.9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4-5

Recovery (ft):
Observations:

6(3) J07(08)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: 6(3) J07(08) Date: 5/13/93 Time: 2:05 am (pm)

Samplers and Affiliation: JEG/HUR

Total depth (ft): 6.7

360cm 0.0 copper

Sample Interval 0 - 3 ft

Recovery (ft): 1.7

Color: Black gray green

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 17 0-1 ft 17 1-2 ft 17 2-3 ft

Observations:

Has organic

Sample Interval 3 - 6 ft

Recovery (ft): 2.0

Color: Black gray green

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 28 3-4 ft 24 4-5 ft 17 5-6 ft

Observations:

Unmixed Greenish at 6.0 ft

Sample Interval 6 - 9 ft

Recovery (ft): _____

Color: _____

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): _____ 6-7 ft _____ 7-8 ft _____ 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 3 - 4

Recovery (ft): _____

Observations:

G(3) K08(01)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(3) K08(01) Date: 5/13/93 Time: 2:10 am (00)
Samplers and Affiliation: HMR/SEG
Total depth (ft): 30 ft
X3G OVM 0-30' approx

Sample Interval 0 - 3 ft

Recovery (ft): 1 e 3
Color: Black gray grey
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 23 0-1 ft 22 1-2 ft 16 2-3 ft

Observations:

Homogeneous

Sample Interval 3 - 6 ft

Recovery (ft): 2.0
Color: Black gray grey
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 12 3-4 ft 4-5 ft 5-6 ft

Observations:

Homogeneous

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 0-1

Recovery (ft):

Observations:

6(3) K08(08)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: 6(3) K08(08) Date: 5/13/93 Time: 2:15 am (pm)
Samplers and Affiliation: HMR/JEG
Total depth (ft): 4.5
13.6 OVM 0.0

Sample Interval 0 - 3 ft

Recovery (ft): 1.7
Color: Block gray green
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 16 0-1 ft 18 1-2 ft 9 2-3 ft

Observations:

Heterogeneous

Sample Interval 3 - 6 ft

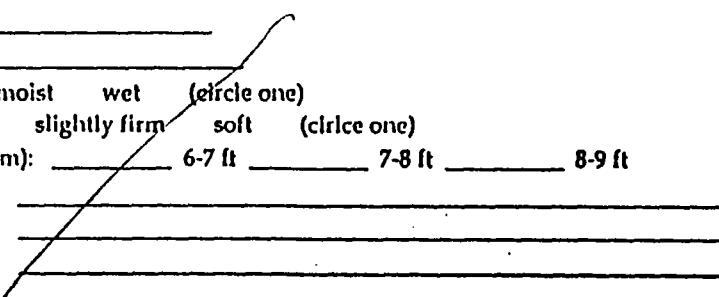
Recovery (ft): 1.4
Color: Block gray green
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 17 3-4 ft 16 4-5 ft 5-6 ft

Observations:

Heterogeneous

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:



VOC Analysis

Interval selected for VOC analysis (ft): 1-2

Recovery (ft):

Observations:

g(3) M08(06)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: g(3) M08(06) Date: 5/13/93 Time: 14:20 am pm
Samplers and Affiliation: H-U-R / S-E-G
Total depth (ft): 5.3
0.1M 1.3G 0.0 4.0m

Sample Interval 0 - 3 ft

Recovery (ft): 3.0
Color: Black gray green
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 30 0-1 ft 26 1-2 ft 25 2-3 ft
Observations: Homogeneous

Sample Interval 3 - 6 ft

Recovery (ft): 3.0
Color: Black gray green
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 30 3-4 ft 35 4-5 ft 31 5-6 ft
Observations: Homogeneous

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): _____ 6-7 ft _____ 7-8 ft _____ 8-9 ft
Observations: _____

VOC Analysis

Interval selected for VOC analysis (ft): 4-5
Recovery (ft): _____
Observations: _____

G(3) M09(01)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(3) M09(01) Date: 5/13/93 Time: 14:25 am (pm)
Samplers and Affiliation: SEG/HMR
Total depth (ft): 6.5
B6 OUN 0.0 Upper

Sample Interval 0 - 3 ft

Recovery (ft): 2.4
Color: Black gray green
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 25 0-1 ft 23 1-2 ft 30 2-3 ft

Observations:

Heterogeneous

Sample Interval 3 - 6 ft

Recovery (ft): 1.0
Color: Black gray green
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 20 3-4 ft 32 4-5 ft 26 5-6 ft

Observations:

Heterogeneous - sandy

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4-5

Recovery (ft):

Observations:

G(4) N05(12)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(4) N05(12) Date: 9/13/93 Time: 1025 am pm
Samplers and Affiliation: SEG/HARR
Total depth (ft): 3.7
OUMBG 0.0 Jppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.6
Color: Dark gray green block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 0 0-1 ft 1 1-2 ft 10 2-3 ft
Observations: Drunkeed Soil / Green color
trace unrunkeed Green stuff

Sample Interval 3 - 6 ft

Recovery (ft): 2.5
Color: Dark Gray Green to Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 18 3-4 ft 7 4-5 ft 5-6 ft
Observations: Drunkeed Soil / Trace unrunkeed chemicals /
Dark gray green block
Trace unrunkeed Soil /

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations: _____

VOC Analysis

Interval selected for VOC analysis (ft): 3-4

Recovery (ft): _____

Observations: _____

G(4) 006(05)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(4) 006(05) Date: 5/13/93 Time: 1:22 am (pm)

Samplers and Affiliation: KMR/SEG

Total depth (ft): 900 OVM BG O Oxygen

Sample Interval 0 - 3 ft

Recovery (ft): 2.5

Color:

Moisture: dry moist wet (circle one)

Consistency: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 2 0-1 ft 16 1-2 ft 22 2-3 ft

Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 2.2

Color:

Moisture: dry moist wet (circle one)

Consistency: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 17 3-4 ft 20 4-5 ft 5-6 ft

Observations:

Sample Interval 6 - 9 ft

Recovery (ft):

Color:

Moisture: dry moist wet (circle one)

Consistency: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 2-3

Recovery (ft):

Observations:

G (4) 009(07)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G (4) 009 (07) Date: 5/13/93 Time: 10:15 am (pm)
Samplers and Affiliation: FAIR/JEG
Total depth (ft): 5.6 0.0M 3.6 0.0

Sample Interval 0 - 3 ft

Recovery (ft): 2.0
Color: Black gray green
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 16 0-1 ft 35 1-2 ft 30 2-3 ft
Observations: Trace unmixed charcoal

Sample Interval 3 - 6 ft

Recovery (ft): 1.3
Color: Black gray green
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 28 3-4 ft 33 4-5 ft 31 5-6 ft
Observations: Trace unmixed charcoal

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations: _____

VOC Analysis

Interval selected for VOC analysis (ft): 1-2
Recovery (ft): _____
Observations: _____

6(4) Pob(07)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: 6(4) Pob(07) Date: 5/13/93 Time: 1:10 am
Samplers and Affiliation: HMR/SEG
Total depth (ft): 4.2 36 0.11 0.00

Sample Interval 0 - 3 ft

Recovery (ft): 2.6
Color: Dark Gray Green Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6 0-1 ft 14 1-2 ft 6 2-3 ft

Observations:

~~Inhomogeneous~~

Sample Interval 3 - 6 ft

Recovery (ft): 1.3
Color: Dark Gray Green Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 9 3-4 ft 17 4-5 ft 5-6 ft

Observations:

~~Inhomogeneous~~

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

~~.....~~

VOC Analysis

Interval selected for VOC analysis (ft): 4-5

Recovery (ft): _____

Observations:

~~.....~~

G(4) Pog(09)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(4) Pog(09) Date: 5/13/95 Time: 1:05 am pm
Samplers and Affiliation: HMR/SEC
Total depth (ft): 5.3
0-6' 0-3' 0-0' Upper

Sample Interval 0 - 3 ft

Recovery (ft): 2.7
Color: Black Brown
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 5 0-1 ft 30 1-2 ft 20 2-3 ft

Observations:

Darkened soil

Sample Interval 3 - 6 ft

Recovery (ft): 1.6
Color: Dark gray green block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 33 3-4 ft 42 4-5 ft 40 5-6 ft

Observations:

Hazardous

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4-5

Recovery (ft):

Observations:

G(5) N11/06

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(5) N11/06 Date: 5/13/93 Time: 12:55 am pm
Samplers and Affiliation: HMR/SEG
Total depth (ft): 3.5
0.0M 3.5G 0.0Upm

Sample Interval 0 - 3 ft

Recovery (ft): 2.6
Color: Dark Gray Green Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 15 0-1 ft 30 1-2 ft 20 2-3 ft
Observations: Dense soil

Sample Interval 3 - 6 ft

Recovery (ft): 1.0
Color: Dark Gray Green Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 43 3-4 ft 4-5 ft 5-6 ft
Observations: Dense soil

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations: _____

VOC Analysis

Interval selected for VOC analysis (ft): 3-4

Recovery (ft): _____

Observations: _____

Duplicate composite sample collected from this Cell (5).
prepared

5(5) N13(05)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: 5(5) N13(05) Date: 5/13/93 Time: 12:50 am pm
Samplers and Affiliation: (FMR) SEC
Total depth (ft): 5.4 3.6' OVM Capped

Sample Interval 0 - 3 ft

Recovery (ft): 2.8
Color: Dark Gray Green 3/ocg
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 17 0-1 ft 20 1-2 ft 10 2-3 ft
Observations: loosened soil 2-3 ft

Sample Interval 3 - 6 ft

Recovery (ft): 1.8
Color: Dark Gray Green 3/ocg
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 23 3-4 ft 22 4-5 ft 21 5-6 ft
Observations: fragile

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations: _____

VOC Analysis

Interval selected for VOC analysis (ft): 4-5
Recovery (ft): _____
Observations: _____

G(5) 010(15)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(5) 010(15) Date: 5/13/93 Time: 12:47 am (pm)
Samplers and Affiliation: HMR/SEG
Total depth (ft): 9.4
0m to 9.0 Upper

Sample Interval 0 - 3 ft

Recovery (ft): 2.6
Color: Dark gray-green block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 22 0-1 ft 28 1-2 ft 22 2-3 ft
Observations: Homogeneous

Sample Interval 3 - 6 ft

Recovery (ft): 0.7
Color: Dark Gray Green Block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 37 3-4 ft 17 4-5 ft 5-6 ft
Observations: Homogeneous

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 3-4
Recovery (ft):
Observations:

G(5) 014(10)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(5) 014(10) Date: 5/13/93 Time: 12:45 am

Samplers and Affiliation:

Total depth (ft): 4.8

OVM BG OC

Sample Interval 0 - 3 ft

Recovery (ft): 2.5

Color: Dark gray-green block

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 21 0-1 ft 30 1-2 ft 16 2-3 ft

Observations:

fragile

Sample Interval 3 - 6 ft

Recovery (ft): 1.0

Color: Dark gray-green block

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 27 3-4 ft 30 4-5 ft 1 5-6 ft

Observations:

Trace scattered mixed charred

Sample Interval 6 - 9 ft

Recovery (ft):

Color:

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4-5

Recovery (ft):

Observations:

G(5) P13(02)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(5) P13(02) Date: 5/12/93 Time: 12:40 am
Samplers and Affiliation: HMR/SEG
Total depth (ft): 4.2
0.0M BG 0.0 ppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.6
Color: Dark gray green black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 11 0-1 ft 24 1-2 ft 11 2-3 ft

Observations:

Truncated soil + Gravel

Sample Interval 3 - 6 ft

Recovery (ft): 1.8
Color: Dark Gray Green black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 13 3-4 ft 18 4-5 ft ... 5-6 ft

Observations:

Spangenes

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 1-2
Recovery (ft):
Observations:

6(6) K13(08)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: 6(6) K13(08) Date: 5/13/93 Time: 10:05 am pm
Samplers and Affiliation: SEG/HIA
Total depth (ft): 5.3
0 ft - 13.6 0.0 Upper

Sample Interval 0 - 3 ft

Recovery (ft): 2.5
Color: Dark gray-green block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 15 0-1 ft 24 1-2 ft 18 2-3 ft
Observations: Hazardous

Sample Interval 3 - 6 ft

Recovery (ft): 2.2
Color: Dark gray-green block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 19 3-4 ft 19 4-5 ft 11 5-6 ft
Observations: Hazardous

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations: _____

VOC Analysis

Interval selected for VOC analysis (ft): 1-2
Recovery (ft): _____
Observations: _____

G(6) K14(04)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(6) K14(04) Date: 5/13/93 Time: 10:10 am pm
Samplers and Affiliation: HMR/SEG
Total depth (ft): 4.7
VPM 136 0.0 Vppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.2
Color: Dark gray-green block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 8 0-1 ft 13 1-2 ft 11 2-3 ft
Observations: Brown soil 2.2-2.6 ft

Sample Interval 3 - 6 ft

Recovery (ft): 1.0
Color: Dark gray-green block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 10 3-4 ft 20 4-5 ft 5-6 ft
Observations: Homogeneous

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 1-2
Recovery (ft):
Observations:

G(6) L12(09)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: 6(6) L12(09) Date: 5/13/83 Time: 10:20 am pm
Samplers and Affiliation: HARR/SEG
Total depth (ft): 4.1
0.1M 1.3G 0.0 Upper

Sample Interval 0 - 3 ft

Recovery (ft): 1.5
Color: Dark gray green block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 15 0-1 ft 24 1-2 ft 22 2-3 ft
Observations: homogeneous

Sample Interval 3 - 6 ft

Recovery (ft): 1.0
Color: Dark gray green block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 11 3-4 ft 22 4-5 ft 5-6 5-6 ft
Observations: Trace unmix ed chemicals at 4.0 ft
trace unmixed soil throughout

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 1-2
Recovery (ft): _____
Observations:

G(6) L12(12)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(6) L12(12) Date: 5/13/93 Time: 10:25 am pm
Samplers and Affiliation: HMR/SEG → ERM
Total depth (ft): 4.3
OVM ISG 0.0 Vppm

Sample Interval 0 - 3 ft

Recovery (ft): 2.0
Color: Dark Gray Green Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 13.0 0-1 ft 23.0 1-2 ft 13.0 2-3 ft

Observations:

1.8-2.0 Trace of Unmix. Chemical

Sample Interval 3 - 6 ft

Recovery (ft): 1.0
Color: Dark Gray Green Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 15.0 3-4 ft 13.0 4-5 ft 5-6 ft

Observations:

Homogeneous

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 1-2

Recovery (ft):

Observations:

G(6) L15(02)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(6) L15(02) Date: 5/13/93 Time: 10:30 am pm
Samplers and Affiliation: HTR JEG -> ERA
Total depth (ft): 5.5' OUM BG Reading 0.00

Sample Interval 0 - 3 ft

Recovery (ft): 2.0'
Color: Dark Gray Green Black
Moisture: dry moist wet (circle one)
Consistane: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 4.0 0-1 ft 6.0 1-2 ft 8.0 2-3 ft
Observations:
Homogenous

Sample Interval 3 - 6 ft

Recovery (ft): 0.9'
Color: Dark Green Gray Green Black
Moisture: dry moist wet (circle one)
Consistane: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6.0 3-4 ft 9.0 4-5 ft 5-6 ft
Observations:
Homogenous

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistane: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

* Interval selected for VOC analysis (ft): 4-5
Recovery (ft):
Observations:

G(7) E14(13)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(7) E14(13) Date: 5/13/93 Time: 07:33 pm
Samplers and Affiliation: SEC 4 HMR
Total depth (ft): 5.4
0' M B 6 2.0 J ppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.2
Color: Dark gray green/black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 14 0-1 ft 21 1-2 ft 28 2-3 ft 23 4-5 ft
Observations: Scattered organic / soil / brown

Sample Interval 3 - 6 ft

Recovery (ft): 1.8
Color: Dark gray green/black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 18 3-4 ft 26 4-5 ft 26 5-6 ft
Observations: Hand gestures

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 2-3
Recovery (ft):
Observations:

G(7) F12(15)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(7) F12(15) Date: 5/13/93 Time: 9:53 AM pm
Samplers and Affiliation: HMR SEG
Total depth (ft): 60.2
0' M 13.6 0.0 Upper

Sample Interval 0 - 3 ft

Recovery (ft): 3.0
Color: Dark gray green block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 19 0-1 ft 18 1-2 ft 17 2-3 ft
Observations: dangerous

Sample Interval 3 - 6 ft

Recovery (ft): 2.8
Color: Dark gray green block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 19 3-4 ft 31 4-5 ft 10 5-6 ft
Observations: dangerous

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4-5
Recovery (ft):
Observations:

G(7) F14(02)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(7) F14(02) Date: 9/13/83 Time: 9:48 am pm

Samplers and Affiliation: SEC-1441R

Total depth (ft): 46
QJM 136 0.0 Upper

Sample Interval 0 - 3 ft

Recovery (ft): 2.7

Color: Dark gray green/black

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 23 0-1 ft 27 1-2 ft 24 2-3 ft

Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 2.0

Color: Dark gray green black

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 31 3-4 ft 27 4-5 ft 5-6 ft

Observations:

Sample Interval 6 - 9 ft

Recovery (ft):

Color:

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

* Interval selected for VOC analysis (ft): 4-5

Recovery (ft):

Observations:

G(7) F15(16)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(7) F15(16) Date: 5/13/93 Time: 09:40 am pm
Samplers and Affiliation: JSE G/14/M/R
Total depth (ft): 4.7
P.I.D. 13G 0.6 Vppm

Sample Interval 0 - 3 ft

Recovery (ft): 2.1
Color: Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 15 0-1 ft 26 1-2 ft 22 2-3 ft
Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 2.1
Color: Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 29 3-4 ft 32 4-5 ft 11 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4-5
Recovery (ft): _____
Observations:

G(7) G13(09)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(7) G13(09) Date: 5/13/93 Time: 10:00 am pm

Samplers and Affiliation: DEI HMR

Total depth (ft): 5.5

at 0.5 ft 3 ft & 1.3 upper

Sample Interval 0 - 3 ft

Recovery (ft): 2.7

Color: Dark gray/green/blk g

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 10 0-1 ft 28 1-2 ft 30 2-3 ft

Observations: homogeneous

Sample Interval 3 - 6 ft

Recovery (ft): 2.3

Color: Dark gray/green/blk g

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 25 3-4 ft 25 4-5 ft 42 5-6 ft

Observations: homogeneous

Sample Interval 6 - 9 ft

Recovery (ft):

Color:

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 5-6

Recovery (ft):

Observations:

G(8) B16(03)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(8) B16 (03) Date: 5/12/93 Time: 11:10 am pm

Samplers and Affiliation: _____

Total depth (ft): 2 ft

OMBG 2.5 upper

Sample Interval 0 - 3 ft

Recovery (ft): 1.7

Color: Dark grey/black and strong brown

Moisture: dry moist wet (circle one)

Consistane: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6 0-1 ft 1-2 ft 2-3 ft

Observations:

Road or side slope material
Soil on mixed material

Sample Interval 3 - 6 ft

Recovery (ft): _____

Color: _____

Moisture: dry moist wet (circle one)

Consistane: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 3-4 ft 4-5 ft 5-6 ft

Observations:

Sample Interval 6 - 9 ft

Recovery (ft): _____

Color: _____

Moisture: dry moist wet (circle one)

Consistane: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 1-2

Recovery (ft): _____

Observations:

6(8) C11(03)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: 6(8) C11(03) Date: 5/17/93 Time: 11:15 am pm
Samplers and Affiliation:

Total depth (ft): 16

0' M B6 2.5 Upp

Sample Interval 0 - 3 ft

Recovery (ft): 2.0 / 1.6

Color: Gray brown gray / Block

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 5 0-1 ft 3 1-2 ft 2-3 ft

Observations:

Gated slope of road material/
Toxic organic chemicals

Sample Interval 3 - 6 ft

Recovery (ft):

Color:

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 3-4 ft 4-5 ft 5-6 ft

Observations:

Sample Interval 6 - 9 ft

Recovery (ft):

Color:

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 1-2

Recovery (ft):

Observations:

G(8) C11 (07)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: *G(8) C11 (07)* Date: *5/12/93* Time: *11:00 AM*
Samplers and Affiliation: *SE of FMR*
Total depth (ft): *14* *1.2*
DUMB G 4/1 ppm

Sample Interval 0 - 3 ft

Recovery (ft): *1.4*
Color: *Grayish Brown mottled w/ Dark grey brown*
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): *4* 0-1 ft *6* 1-2 ft *1* 2-3 ft

Observations: *Scattered iron mixed (ferric) /
Clay plug at 1.4 ft
Scattered iron mixed or oxidized material /*

This road or side of reservoir material /

Sample Interval 3 - 6 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): *3-4 ft* *4-5 ft* *5-6 ft*
Observations: _____

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): *6-7 ft* *7-8 ft* *8-9 ft*
Observations: _____

VOC Analysis

Interval selected for VOC analysis (ft): *1-2*
Recovery (ft): _____
Observations: _____

G (8) D15(10)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G (8) D15(10) Date: 5/12/93 Time: 0:23 pm
Samplers and Affiliation: SEG/HMR-ERM
Total depth (ft): 5.3
VPM 36 5.0 Vppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.7
Color: Dark olive gray / black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 28 0-1 ft 36 1-2 ft 36 2-3 ft
Observations:
homogeneous

Sample Interval 3 - 6 ft

Recovery (ft): 1.7
Color: Dark olive gray / black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 23 3-4 ft 36 4-5 ft 33 5-6 ft
Observations:
homogeneous

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4-5

Recovery (ft): _____
Observations:

6/8) D19(02)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: 6/8) D19(02) Date: 5/14/83 Time: 09:55 am pm

Samplers and Affiliation: _____

Total depth (ft): 5.5

OVM BG 5.0 ppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.3

Color: Dark gray green

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 11 0-1 ft 17 1-2 ft 19 2-3 ft

Observations: Gnarled roots 50% Y

Sample Interval 3 - 6 ft

Recovery (ft): 1.2

Color: Dark gray green

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 18 3-4 ft 30 4-5 ft 26 5-6 ft

Observations: _____

Sample Interval 6 - 9 ft

Recovery (ft): _____

Color: _____

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations: _____

VOC Analysis

Interval selected for VOC analysis (ft): 4.5

Recovery (ft): _____

Observations: _____

G(9) E18(04)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(9) E18(04) Date: 5/12/93 Time: 09:25 ⑩ pm
Samplers and Affiliation: HMR/SEG-ERW
Total depth (ft): 16.8
ONM BG 6.9 Vppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.7
Color: Dark green gray/black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 20 0-1 ft 24 1-2 ft 32 2-3 ft
Observations:
Holes

Sample Interval 3 - 6 ft

Recovery (ft): 1.0
Color: Dark green gray/black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 20 3-4 ft 23 4-5 ft 34 5-6 ft
Observations:
Holes

Sample Interval 6 - 9 ft

Recovery (ft): 1.3
Color: Dark gray green 13/001
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 33 6-7 ft 7-8 ft 8-9 ft
Observations:
Holes

VOC Analysis

Interval selected for VOC analysis (ft): 5-6
Recovery (ft):
Observations:

G(9) G17/06

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(9) G17/06 Date: 5/12/93 Time: 10:17 am pm
Samplers and Affiliation: SE6/HMR
Total depth (ft): 5.6
0.0 ft to 5.0 vppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.5
Color: Dark gray/green / black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 29 0-1 ft 42 1-2 ft 47 2-3 ft
Observations: Hazardous

Sample Interval 3 - 6 ft

Recovery (ft): 1.6
Color: Dark gray/green / black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 29 3-4 ft 29 4-5 ft 21 5-6 ft
Observations: Hazardous

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations: _____

VOC Analysis

Interval selected for VOC analysis (ft): 2-3

Recovery (ft): _____
Observations: _____

G(9) 6/9/09

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(9) 6/9/09 Date: 5/12/03 Time: 10:00 AM pm
Samplers and Affiliation: SIEG / HLR
Total depth (ft): 4.9
0.0 ft - 4.3 ft Upper

Sample Interval 0 - 3 ft

Recovery (ft): 1.4
Color: Dark gray green
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 14 0-1 ft 14 1-2 ft 29 2-3 ft 131
Observations: scattered organic soil

Sample Interval 3 - 6 ft

Recovery (ft): 1.3
Color: Dark gray green / black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 21 3-4 ft 17 4-5 ft 5-6 ft
Observations: soft organic soil

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 2-3
Recovery (ft):
Observations:

$\zeta(9) \zeta(14)$

**RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING**

KEystone STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(9) G/9(14) Date: 5/12/83 Time: 2:35 pm
Samplers and Affiliation: JEG/Hult
Total depth (ft): 50
0-13.6 6.9 Upper

Sample Interval 0 - 3 ft

Recovery (ft): 1.0
Color: Dark gray green/black
Moisture: dry moist wet (circle one)
Consistence: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 17 0-1 ft 18 1-2 ft 29 2-3 ft
Observations: Scattered unmined soil - Strong broken

Sample Interval 3 - 6 ft

Recovery (ft): 1.4
Color: Dark gray/grey/black
Moisture: dry moist wet (circle one)
Consistence: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 33 3-4 ft 35 4-5 ft 33 5-6 ft
Observations: Trace organic soil

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistence: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): _____ 6-7 ft _____ 7-8 ft _____ 8-9 ft
Observations: _____

VOC Analysis

Interval selected for VOC analysis (ft): _____ 4-5
Recovery (ft): _____
Observations: _____

G (9) H19(07)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G (9) H19(07) Date: 5/18/93 Time: 10:45 am pm
Samplers and Affiliation: OEG/HMR
Total depth (ft): 5.4
0 ft 5.4 0.00

Sample Interval 0 - 3 ft

Recovery (ft): 1.7

Color: _____

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 9 0-1 ft 9 1-2 ft 30 2-3 ft

Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 1.7

Color: _____

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 10 3-4 ft 20 4-5 ft 28 5-6 ft

Observations:

Sample Interval 6 - 9 ft

Recovery (ft): _____

Color: _____

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 5-6

Recovery (ft): _____

Observations:

G(10) 019(09)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(10) 019(09) Date: 5/11/93 Time: 14:25 am (pm)
Samplers and Affiliation: SIEG/HMR
Total depth (ft): 5.1
OVG BG 1.0 Vppm

Sample Interval 0 - 3 ft

Recovery (ft): 2.0
Color: Dark gray/green/black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 16 0-1 ft 37 1-2 ft 36 2-3 ft
Observations: Dark gray/green/black
Trace unmixed soil

Sample Interval 3 - 6 ft

Recovery (ft): 1.6
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 35 3-4 ft 35 4-5 ft 56 5-6 ft
Observations: Dark gray/green/black - homogeneous

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4-5

Recovery (ft):
Observations:

G(10) K18(13)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(10) K18(13) Date: 5/11/93 Time: 14:35 am (01)
Samplers and Affiliation: SEG/HMR-CRM
Total depth (ft): 5.1
OVM BG 0.0 ppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.0
Color: Dark gray/green block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 29 0-1 ft 45 1-2 ft 45 2-3 ft
Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 1.3
Color: Dark gray/green block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 35 3-4 ft 51 4-5 ft 5 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6.7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4-5
Recovery (ft):
Observations:

G(10) M20(14)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(10) M20(14) Date: 5/14/93 Time: 14:50 am pm
Samplers and Affiliation:

Total depth (ft): 5.6
DUM 3.6 0.0 J ppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.3
Color: Dark gray green black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 5 0-1 ft 27 1-2 ft 26 2-3 ft

Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 1.3
Color: Dark gray green black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 47 3-4 ft 29 4-5 ft 28 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 3-4
Recovery (ft):
Observations:

G(10) N21(01)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(10) N21(01) Date: 5/14/93 Time: 15:00 am (pm)

Samplers and Affiliation:

Total depth (ft): 4.8

OVM 3G 0.5 Vppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.7

Color: Dark gray green block

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 26 0-1 ft 16 1-2 ft 15 2-3 ft

Observations: Safffered steagy broken blocky material

Sample Interval 3 - 6 ft

Recovery (ft): 1.3

Color: Dark gray green block

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 19 3-4 ft 19 4-5 ft 5-6 ft

Observations: Mixed sandy broken cement soil
at 4.6 - 4.8 ft at wet bottom reservoir bottom

Sample Interval 6 - 9 ft

Recovery (ft):

Color:

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6.7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 0 - 1

Recovery (ft):

Observations:

G(10) N21(12)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(10) N21(12) Date: 5/11/93 Time: 15:15 am (1)
Samplers and Affiliation: JEG/HLR
Total depth (ft): 40'
OVM BG O^cO

Sample Interval 0 - 3 ft

Recovery (ft): 1.3
Color: Dark gray green block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 17 0-1 ft 44 1-2 ft 95 2-3 ft
Observations: Trace mineral soil at 3.0 ft

Sample Interval 3 - 6 ft

Recovery (ft): 1.4
Color: Dark gray green block
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 28 3-4 ft 39 4-5 ft 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 2-3
Recovery (ft): _____
Observations:

P.19(04)

G (II) R25(04)

**RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING**

**KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS**

P19 (09)

13:35

Sample #: G (II) R25(09) Date: 5/11/93 Time: 13:25 am pm

Samplers and Affiliation: SEG/HMR - EBM

Total depth (ft): 4.5

on M 13 6 7.8 ppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.5

Color: Dark gray/black

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 20 0-1 ft 61 1-2 ft 43 2-3 ft

Observations:

Oil-coating sample 1.3 to 1.5 ft
trace vermilion soil**Sample Interval 3 - 6 ft**

Recovery (ft): 1.5

Color: Dark gray/black

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 42 3-4 ft 40 4-5 ft 5-6 ft

Observations:

trace vermilion soil

Sample Interval 6 - 9 ft

Recovery (ft):

Color:

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 1-2

Recovery (ft):

Observations:

G(11) Q19(15)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(11) Q19(15) Date: 5/14/93 Time: 13:47 am pm
Samplers and Affiliation: JEG/HAR-EPM
Total depth (ft): 4.7
OUB 3.6 1.5 Vppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.3
Color: Dark gray/green/black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 16 0-1 ft 23 1-2 ft 27 2-3 ft
Observations:
Trace ammonia chemical at 3 ft
Trace scattered mineral soil throughout

Sample Interval 3 - 6 ft

Recovery (ft): 1.3
Color: Dark gray/green/black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 33 3-4 ft 48 4-5 ft 1 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): _____ 6-7 ft _____ 7-8 ft _____ 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4-5
Recovery (ft): _____
Observations:

G(11) Q23(12)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(11) Q23(12) Date: 5/14/93 Time: 13:55 am (pm)
Samplers and Affiliation:

Total depth (ft): 5.6
BG-OVM Z.O upper

Sample Interval 0 - 3 ft

Recovery (ft): 2.0

Color: Dark gray green/black

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 30 0-1 ft 23 1-2 ft 28 2-3 ft

Observations: Holey stones

Sample Interval 3 - 6 ft

Recovery (ft): 2.0

Color: Dark gray green/black

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 67 3-4 ft 66 4-5 ft 5-6 ft

Observations: Few Fucus at 2.8-3 ft
Holey stones

Sample Interval 6 - 9 ft

Recovery (ft):

Color:

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4-5

Recovery (ft):

Observations:

G(11) Q25(12)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(11) Q25(12) Date: 1 Time: 14:10 am (pm)
Samplers and Affiliation: SEG/HMR-ERM
Total depth (ft): 31.7
OV M26 0.5 Vppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.4
Color: Dark gray/black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 9 0-1 ft 31 1-2 ft 74 2-3 ft
Observations: Drilled General 2.8-3.0 ft

Sample Interval 3 - 6 ft

Recovery (ft): 1.3
Color: Dark gray/black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 23 3-4 ft 74 4-5 ft 5-6 ft
Observations: Drilled General 2.5 ft

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 1-2
Recovery (ft):
Observations:

R25(09)

P19(09)

G(1)
II

**RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING**

KEYSTONE STEEL & WIRE COMPANY

BARTONVILLE, ILLINOIS

R25(09)

13:25

+~~13:25~~Sample #: G(1) P19(09) Date: 9/4/93 Time: 13:25 am

Samplers and Affiliation: JEG/HHR-Easy

Total depth (ft): 6.0

0.1M 136 2.8 pxy

Sample Interval 0 - 3 ft

Recovery (ft): 1.2

Color: Dark olive green/black

Moisture: dry moist wet (circle one)Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 35 0-1 ft 38 1-2 ft 33 2-3 ft

Observations: Zebra oxidized surface soil

Sample Interval 3 - 6 ft

Recovery (ft): 1.2

Color: Dark olive green/black

Moisture: dry moist wet (circle one)Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 40 3-4 ft 31 4-5 ft 5-6 ft

Observations: Fluorogenic

Sample Interval 6 - 9 ft

Recovery (ft):

Color:

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 3-4

Recovery (ft):

Observations:

G (12) J23(a)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(12) J23(01) Date: 5/11/93 Time: 09:02 am pm
Samplers and Affiliation: JEG, BKE
Total depth (ft): 5.2
OVM BG 427 Vppm - in Not
3.6

Sample Interval 0 - 3 ft

Recovery (ft): 1.6
Color: Black - dark olive green
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 25 0-1 ft 50 1-2 ft 2-3 ft
Observations: Dark olive green, soft, sticky, homogeneous

Sample Interval 3 - 6 ft

Recovery (ft): 1.5
Color: Dark olive green
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 45 3-4 ft 35 4-5 ft 66 ft
Observations: As above but firm slightly firm
T-D 5.2 ft Volatiles collected from 3-4-

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 3-4
Recovery (ft):
Observations:

G(12) N23(03)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(12) N23(03) Date: 5/11/93 Time: 09:40 pm

Samplers and Affiliation: SEG/HMR-ERM

Total depth (ft): 4.7

ONM BG 2.3 Upper

Sample Interval 0 - 3 ft

Recovery (ft): 1.5

Color: Dark olive green/black

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 25 0-1 ft 36 1-2 ft 2-3 ft

Observations:

0 - 3 ft strongly leached soil, moist,
black, plastic. 0.5 - 1.5 ft homogeneous
dark olive green/black

Sample Interval 3 - 6 ft

Recovery (ft): 1.5

Color: Dark olive green/black

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 33 3-4 ft 42 4-5 ft 5-6 ft

Observations:

Homogeneous -
Volatiles collected from 3-4'

Sample Interval 6 - 9 ft

Recovery (ft):

Color:

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4-5

Recovery (ft):

Observations:

G(12) 025(05)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(12) 025(05) Date: 5/14/93 Time: 09:30 ~~10~~ pm
Samplers and Affiliation: JEG/ERW

Total depth (ft): 4.3

0.1M 1.5M 2.0M 3.5M ppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.7

Color: Dark olive green/black

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 25 0-1 ft 41 1-2 ft 30 2-3 ft

Observations: ~~-~~ ~~1.5M~~ Hazardous

Volatile collected from 1-2 ft

Sample Interval 3 - 6 ft

Recovery (ft): 1.3

Color: Dark olive green/black

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 40 3-4 ft 4-5 ft 5-6 ft

Observations: ~~dark olive green/black~~ ~~Hazardous~~

Sample Interval 6 - 9 ft

Recovery (ft): ~~1.3~~

Color: ~~Dark olive green/black~~

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 1-2

Recovery (ft): ~~1.3~~

Observations:

G(12) 026(07)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(12) 026(07) Date: 5/11/93 Time: 09:10 pm
Samplers and Affiliation: DEER EYES
Total depth (ft): 3.4 ft
0.1m 1.3m 2.3m 3.4m

Sample Interval 0 - 3 ft

Recovery (ft): 2-1
Color: Dark olive green/black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 15 0-1 ft 34 1-2 ft 46 2-3 ft
Observations: 0-0.5 ft - 2-3 ft Strong brown soil - moist, friable, blocky,
0.5-2.1 ft soft, dark olive green, black,
sticky, moist - homogeneous
Jolofiles collected from 2-3 ft

Sample Interval 3 - 6 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 3-4 ft 4-5 ft 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 2-3
Recovery (ft):
Observations:

G (12) P25(14)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(12) P25(14) Date: 5/4/93 Time: 09:50 am pm
Samplers and Affiliation: JEG/HAR-ERM
Total depth (ft): 4.9
136 DUM 2.0

Sample Interval 0 - 3 ft

Recovery (ft): 1.3
Color: Dark Olive Green/Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 5 0-1 ft 29 1-2 ft 2-3 ft
Observations: Homogenous, soft, sticky

Sample Interval 3 - 6 ft

Recovery (ft): 1.2
Color: Dark Olive Green/Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 31 3-4 ft 19 4-5 ft 5-6 ft
Observations: Homogenous, soft, sticky
Volatiles collected from 3-4'

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 3-4
Recovery (ft):
Observations:

G(13) F24(16)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(13) F24(16) Date: 5/6/93 Time: 8:50 am pm
Samplers and Affiliation: AHN, TCG, BGE, RCF
Total depth (ft): 6.1

Sample Interval 0 - 3 ft

Recovery (ft): 1.6 DV/m
Color: Gray Black
Moisture: dry moist wet (circle one)
Consistane: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 13.8 0-1 ft 8.5 1-2 ft / 2-3 ft
Observations:

Base
6.5

Sample Interval 3 - 6 ft

Recovery (ft): 1.2
Color: Gray Black
Moisture: dry moist wet (circle one)
Consistane: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 13.6 3-4 ft / 4-5 ft / 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistane: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 0-1
Recovery (ft):
Observations:

G(13) G22(04)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(13) G22(04) Date: 5/6/93 Time: 9:05 am pm
Samplers and Affiliation: CHI JEG RGC RCF
Total depth (ft): 6.7'

Sample Interval 0 - 3 ft

Recovery (ft): 1.5
Color: gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 13.6 0-1 ft / 1-2 ft / 2-3 ft
Observations:

JVM Base

6.5

Sample Interval 3 - 6 ft

Recovery (ft): 1.6
Color: gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 13.1 3-4 ft / 4-5 ft / 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 0.1
Recovery (ft):
Observations:

G(13) G24(04)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(13) G24(04) Date: 5/6/93 Time: 9:25 am pm
Samplers and Affiliation: E&V JEG BGE RCF
Total depth (ft): 7.5

Sample Interval 0 - 3 ft

Recovery (ft): 1.3
Color: GRAY BLACK

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 16 0-1 ft / 1-2 ft / 2-3 ft

Observations:

OVN

Base

6.5

Sample Interval 3 - 6 ft

Recovery (ft): 1.4
Color: GRAY BLACK

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 65 3-4 ft / 4-5 ft / 5-6 ft

Observations:

Sample Interval 6 - 9 ft

Recovery (ft): /
Color: /

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): / 6-7 ft / 7-8 ft / 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 0-1

Recovery (ft): /

Observations:

G(13) G26(08)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(13) G26(08) Date: 5/6/93 Time: 9:20 am pm
Samplers and Affiliation: S&H JEG BGE RCF
Total depth (ft): 8.2

Sample Interval 0 - 3 ft

Recovery (ft): 1.5 Oily
Color: Gray Black Base
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 11 0-1 ft 14 1-2 ft 2-3 ft 6.5
Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 1.4
Color: Gray Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 16 3-4 ft 4-5 ft 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft): /
Color: /
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations: /

VOC Analysis

Interval selected for VOC analysis (ft): 3-4
Recovery (ft): /
Observations: /

G(13) J23(16)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(13) J23/16 Date: 5/6/93 Time: 9:35 am pm
Samplers and Affiliation: JEG RCE RCF
Total depth (ft): 6.5

Sample Interval 0 - 3 ft

Recovery (ft): 1.5
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 7.5 0-1 ft / 1-2 ft / 2-3 ft
Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 1.7
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 10 3-4 ft 8.5 4-5 ft / 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 3-4
Recovery (ft):
Observations:

G(14) C23(15)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(14) C23(15) Date: 5/6/93 Time: 12:25 am
Samplers and Affiliation: LHI JTG BGE RCF
Total depth (ft): 2.0

Sample Interval 0 - 3 ft

Recovery (ft): 1.2
Color: gray/black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 2.0 0-1 ft 1-2 ft 2-3 ft
Observations: Some CLAY or CHEMICAL

O V/m
Base
6.5

Sample Interval 3 - 6 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): _____ 3-4 ft _____ 4-5 ft _____ 5-6 ft
Observations: _____

Sample Interval 6 - 9 ft

Recovery (ft): _____
Color: _____
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): _____ 6-7 ft _____ 7-8 ft _____ 8-9 ft
Observations: _____

VOC Analysis

Interval selected for VOC analysis (ft): 0 - 1
Recovery (ft): _____
Observations: _____

G(14) C26/07

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(14) C26/07 Date: 5/6/93 Time: 11:50 AM pm
Samplers and Affiliation: Jey Bge RCF
Total depth (ft): 7.6

Sample Interval 0 - 3 ft

Recovery (ft): 2.5
Color: Gray Black

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 8.5 0-1 ft 7.5 1-2 ft 6 2-3 ft

Observations: Some Clay Pieces

0V4
Base
6.5

Sample Interval 3 - 6 ft

Recovery (ft): 1.5

Color:

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 8.5 3-4 ft 6.5 4-5 ft / 5-6 ft

Observations:

Sample Interval 6 - 9 ft

Recovery (ft): /

Color:

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): / 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 3-4

Recovery (ft): /

Observations:

G(14) C27(0)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEystone STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(14) C27(0a) Date: 5/6/93 Time: 12:10 am pm
Samplers and Affiliation: JEG BGE ACF
Total depth (ft): 6.2

Sample Interval 0 - 3 ft

Recovery (ft): 1.5
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 9 0-1 ft 8.5 1-2 ft 2-3 ft
Observations: some clay

0/V
Base
6.5

Sample Interval 3 - 6 ft

Recovery (ft): 1.6
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 13 3-4 ft 12 4-5 ft 5-6 ft
Observations: some clay

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 3-4
Recovery (ft):
Observations:

6(14) D26(05)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: 6(14) D26(05) Date: 5/6/93 Time: 12:32 am pm
Samplers and Affiliation: JAH TEG BGE RCF
Total depth (ft): 7.4

Sample Interval 0 - 3 ft

Recovery (ft): 0.8
Color: Gray Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 28 0-1 ft / 1-2 ft / 2-3 ft
Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 1.1
Color: Gray Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 9.5 3-4 ft / 4-5 ft / 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft):
Color:
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 0-1
Recovery (ft):
Observations:

G(14) E 25(15)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(14) E 25(15) Date: 5/6/93 Time: 13:00 am pm
Samplers and Affiliation: EN TEG Bge RCF
Total depth (ft): 8.4

Sample Interval 0 - 3 ft

Recovery (ft): 1.5
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 20 0-1 ft 1 1-2 ft / 2-3 ft

Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 1.4
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 11 3-4 ft / 4-5 ft / 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft): 1.3
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 10 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 0-1
Recovery (ft): _____
Observations:

G(15) D28(05)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(15) D28(05) Date: 5/5/93 Time: 13:17 am
Samplers and Affiliation: JTH JEG BGC RCE
Total depth (ft): 8.7

Sample Interval 0 - 3 ft

Recovery (ft): 1.0
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 14 0-1 ft / 1-2 ft / 2-3 ft
Observations:

OVAY
BSSE

7.6

Sample Interval 3 - 6 ft

Recovery (ft): 1.2
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 18 3-4 ft / 4-5 ft / 5-6 ft
Observations: SOME CHEMICAL

Sample Interval 6 - 9 ft

Recovery (ft): 1.0
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 13 6-7 ft / 7-8 ft / 8-9 ft
Observations: MORE CHEMICAL AT BOTTOM
0.5 CLAY REMOVED

VOC Analysis

Interval selected for VOC analysis (ft): 3-4
Recovery (ft):
Observations:

G(15) D29(06)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(15) D29(06) Date: 5/5/93 Time: 13:38 am pm
Samplers and Affiliation: JEG RPF BGE
Total depth (ft): 8.7

Sample Interval 0 - 3 ft

Recovery (ft): 1.5
Color: GRAY BLACK

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 15 0-1 ft 20 1-2 ft 1 2-3 ft

Observations:

OV/V
BASE
7.6

Sample Interval 3 - 6 ft

Recovery (ft): 1.5
Color: GRAY BLACK

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 36 3-4 ft 32 4-5 ft / 5-6 ft

Observations:

Sample Interval 6 - 9 ft

Recovery (ft): 2.5
Color: GRAY BLACK

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 20 6-7 ft 25 7-8 ft 13 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 3-4

Recovery (ft):

Observations:

G(15) E29(06)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(15) E 29(06) Date: 5/5/93 Time: 13:50 am pm
Samplers and Affiliation: JEG BGE RCF
Total depth (ft): 8.2

Sample Interval 0 - 3 ft

Recovery (ft): 1.8
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 25 0-1 ft 2.3 1-2 ft / 2-3 ft
Observations:

Dry
Basic
7.6

Sample Interval 3 - 6 ft

Recovery (ft): 1.3
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 15 3-4 ft 10 4-5 ft / 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft): 2.0
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 9.6 6-7 ft 7.6 7-8 ft / 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 0-1
Recovery (ft):
Observations:

G(15) E30(03)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(15) E30(03) Date: 5/5/93 Time: 14:00 am pm
Samplers and Affiliation: RHI JEG RFE RCF
Total depth (ft): 8.7

Sample Interval 0 - 3 ft

Recovery (ft): 1.3
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistane: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 74 0-1 ft / 1-2 ft / 2-3 ft
Observations:

DVM
Base

7.2

Sample Interval 3 - 6 ft

Recovery (ft): 1.6
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistane: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 12 3-4 ft / 3.5 4-5 ft / 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft): 1.6
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistane: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 13 6-7 ft / 7-8 ft / 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4.5

Recovery (ft):

Observations:

G(15) F27(15)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(15) F27(15) Date: 5/16/93 Time: 14:15 am pm
Samplers and Affiliation: MR JEG Bge RCF
Total depth (ft): 8.5

Sample Interval 0 - 3 ft

Recovery (ft): 1.4

Color: GRAY BLACK

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 10 0-1 ft 12 1-2 ft 2-3 ft

Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 1.6

Color: GRAY BLACK

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 12.5 3-4 ft 9 4-5 ft 5-6 ft

Observations:

Sample Interval 6 - 9 ft

Recovery (ft): 1.5

Color: GRAY BLACK

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 13 6-7 ft 9 7-8 ft 8-9 ft

Observations: CLAY OIL REMOVED

VOC Analysis

Interval selected for VOC analysis (ft): 6-7

Recovery (ft):

Observations:

G(16) G-27(12)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(16) G-27(12) Date: 5/5/93 Time: 09:40 AM pm
Samplers and Affiliation: LHN TEG BFE RCF
Total depth (ft): 9.0

Sample Interval 0 - 3 ft

OVM Base

8.1

Recovery (ft): 1.6
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 13 0-1 ft 19 1-2 ft / 2-3 ft
Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 1.4
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 17 3-4 ft 15 4-5 ft / 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft): 1.4
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 18 6-7 ft / 7-8 ft / 8-9 ft
Observations: Clay Removed 0.5'

VOC Analysis

Interval selected for VOC analysis (ft): 1-2'

Recovery (ft): _____

Observations:

G(16) f29(14)
G

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(16) f29(14) Date: 3/5/93 Time: 9:30 am pm
Samplers and Affiliation: JEG RGC KCF
Total depth (ft): 9.0

Sample Interval 0 - 3 ft

Recovery (ft): 1.5

0/m

Color: Gray BLACK

Base

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 48 0-1 ft 39 1-2 ft 1 2-3 ft

8.1

Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 1.6

Color: Gray BLACK

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 18 3-4 ft 23 4-5 ft 1 5-6 ft

Observations:

Sample Interval 6 - 9 ft

Recovery (ft): 1.1

Color: Gray BLACK

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 18 6-7 ft 1 7-8 ft 1 8-9 ft

Observations: CLAY AT BOTTOM 0.2' REMOVED

VOC Analysis

Interval selected for VOC analysis (ft): 0-1

Recovery (ft):

Observations:

G(16) I29(01)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(16) I29(01) Date: 5/5/93 Time: 09:20 AM pm
Samplers and Affiliation: JEG BGE RCF
Total depth (ft): 8.7

Sample Interval 0 - 3 ft

Recovery (ft): 1.5
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 10 0-1 ft 14 1-2 ft 2-3 ft
Observations:

0/V/M
Base
8.1

Sample Interval 3 - 6 ft

Recovery (ft): 1.3
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 10 3-4 ft 11 4-5 ft 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft): 1.3
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 16 6-7 ft 7-8 ft 8-9 ft
Observations: 0.2' clay piece removed

VOC Analysis

Interval selected for VOC analysis (ft): 6-7
Recovery (ft):
Observations:

G(16) I30(04)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(16) I30(04) Date: 5/5/93 Time: 09:05 am pm
Samplers and Affiliation: 264 Tey BGE RCF
Total depth (ft): 8.2

Sample Interval 0 - 3 ft

Recovery (ft): 1.5
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 19 0-1 ft 16 1-2 ft 2-3 ft
Observations:

0V4 BSSC
0.6

Sample Interval 3 - 6 ft

Recovery (ft): 1.3
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 13 3-4 ft 13 4-5 ft 5-6 ft
Observations: SOME CHEMICAL

Sample Interval 6 - 9 ft

Recovery (ft): 1.0
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 18 6-7 ft 7-8 ft 8-9 ft
Observations: SOME CHEMICAL

VOC Analysis

Interval selected for VOC analysis (ft): 0-1 ft

Recovery (ft):

Observations:

G(16) I30(12)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G (16) I30(12) Date: 5/5/93 Time: 8:55 am pm
Samplers and Affiliation: EHN JEG BGE RCE
Total depth (ft): 8.6

Sample Interval 0 - 3 ft

0Vn Base

8.6

Recovery (ft): 1.6
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 15 0-1 ft 30 1-2 ft 2-3 ft
Observations: some chemical

Sample Interval 3 - 6 ft

Recovery (ft): 1.8
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 13 3-4 ft 4-5 ft 5-6 ft
Observations: some chemical

Sample Interval 6 - 9 ft

Recovery (ft): 1.4
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 14 6-7 ft 26 7-8 ft 8-9 ft
Observations: some chemical

VOC Analysis

Interval selected for VOC analysis (ft): 1-2

Recovery (ft):

Observations:

G(17) K32(14)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(17) K32(14) Date: 5/4/93 Time: 13:41 am pm
Samplers and Affiliation: JDN feg RCF BG
Total depth (ft): 3.2

Sample Interval 0 - 3 ft

Recovery (ft): 2.2
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 5.7 0-1 ft / 1-2 ft / 2-3 ft
Observations:

OVER
BASE
5.7

Sample Interval 3 - 6 ft

Recovery (ft): 1.9
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 5.7 3-4 ft 2.3 4-5 ft / 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft): /
Color: /
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 1.7
Recovery (ft): /
Observations:

G(17) L31(09)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(17) L31(09) Date: 5/4/93 Time: 13:46 am pm
Samplers and Affiliation: SAWYER ICF BG
Total depth (ft): 8.7

Sample Interval 0 - 3 ft

Recovery (ft): 1.2
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 8.5 0-1 ft ✓ 1-2 ft 2-3 ft
Observations:

OVM ~~BASE~~
BASE
5.2

Sample Interval 3 - 6 ft

Recovery (ft): 1.9
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 18 3-4 ft 24.5 4-5 ft ✓ 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft): 2.0
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 24 6-7 ft 18 7-8 ft ✓ 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4-5 ✓ 6-7
Recovery (ft):
Observations:

G(17) L 32(04)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(17) L32(04) Date: 5/4/93 Time: 13:27 am
Samplers and Affiliation: RSH RCG RCF BYE
Total depth (ft): 4.6

Sample Interval 0 - 3 ft

Recovery (ft): 2.1
Color: GRAY - BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 8 0-1 ft 10 1-2 ft / 2-3 ft
Observations: some CHEMICAL

DVM
BASE
5.7

Sample Interval 3 - 6 ft

Recovery (ft): 1.5
Color: GRAY BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 5.7 3-4 ft / 4.5 ft 5-6 ft
Observations: some CHEMICAL

Sample Interval 6 - 9 ft

Recovery (ft): /
Color: /
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft
Observations: /

VOC Analysis

Interval selected for VOC analysis (ft): 1-2
Recovery (ft): /
Observations: /

G (17) N29(11)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(17) N29(11) Date: 5/4/93 Time: 13:20 am pm
Samplers and Affiliation: RSLI ZC4 BGE RLF
Total depth (ft): 8.6

DVM Base

Sample Interval 0 - 3 ft

Recovery (ft): 1.7

6.5

Color: Gray - Black

Moisture: dry moist wet (circle one)

Consistence: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 13 0-1 ft 10 1-2 ft 2-3 ft

Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 1.6

Color: Gray BLACK

Moisture: dry moist wet (circle one)

Consistence: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 10 3-4 ft 13 4-5 ft 5-6 ft

Observations:

Sample Interval 6 - 9 ft

Recovery (ft): 1.5

Color: Gray BLACK

Moisture: dry moist wet (circle one)

Consistence: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 10 6-7 ft 14 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 1-2

Recovery (ft):

Observations:

G (17) N30(10)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G (17) N30(10) Date: 5/4/93 Time: 13:10 am pm
Samplers and Affiliation: 911 TEC BGC RCF
Total depth (ft): 8.9

Sample Interval 0 - 3 ft

Recovery (ft): 0.9 / 1.4
Color: Gray Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 34 0-1 ft 17 1-2 ft 2-3 ft
Observations:

OVM BASE 6.5

Sample Interval 3 - 6 ft

Recovery (ft): 2. ✓
Color: Gray Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 13 3-4 ft 12 4-5 ft 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft): 1.9
Color: Gray Black
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 7 6-7 ft 12 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 0 - 1
Recovery (ft):
Observations:

G(18) 030 (03)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(18) 030 (03) Date: 5/4/93 Time: 9:50 am pm
Samplers and Affiliation: Tey GIA BGE RCF
Total depth (ft): 8.50

OVM Base
7.3

Sample Interval 0 - 3 ft

Recovery (ft): 1.8

Color: BROWN - GRAY

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 26 0-1 ft 15 1-2 ft 2-3 ft

Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 2.2

Color: GRAY BLACK

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 39 3-4 ft 24 4-5 ft 5-6 ft

Observations:

Sample Interval 6 - 9 ft

Recovery (ft): 1.9

Color: Gray BLACK

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 25 6-7 ft 38 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 7-8 3-4

Recovery (ft):

Observations:

G(18) 031(13)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(18) 031(13) Date: 5/4/93 Time: 10:35 AM
Samplers and Affiliation: GJH JEG BGE RCF
Total depth (ft): 8.6

Sample Interval 0 - 3 ft

Recovery (ft): 1.5
Color: GRAY - BLACK

Moisture: dry moist wet (circle one)

Consistane: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 33 0-1 ft 1-2 ft 2-3 ft

Observations:

0 VM BASE
7.3 ppm

Sample Interval 3 - 6 ft

Recovery (ft): 1.6
Color: GRAY BLACK

Moisture: dry moist wet (circle one)

Consistane: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 22 3-4 ft 4-5 ft 5-6 ft

Observations:

Sample Interval 6 - 9 ft

Recovery (ft): 1.5
Color: GRAY BLACK

Moisture: dry moist wet (circle one)

Consistane: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 22 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 0-1

Recovery (ft):

Observations:

G(18) 033(14)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(18) 033(14) Date: 5/4/93 Time: 10:20 am pm
Samplers and Affiliation: GTH TEC BGC RCF
Total depth (ft): 2.6

OVM BASE
7.3 ppm

Sample Interval 0 - 3 ft

Recovery (ft): 1.0

Color: Brown

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 8.1 0-1 ft 1-2 ft 2-3 ft

Observations:

Sample Interval 3 - 6 ft

Recovery (ft):

Color:

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 3-4 ft 4-5 ft 5-6 ft

Observations:

Sample Interval 6 - 9 ft

Recovery (ft):

Color:

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 0.1

Recovery (ft):

Observations:

G(18) P31(13)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(8) P31(13) Date: 5/4/93 Time: 10:00 am pm
Samplers and Affiliation: JCN TCC BGE RCF
Total depth (ft): 0.6

Sample Interval 0 - 3 ft

Recovery (ft): 1.7
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 99 0-1 ft 1-2 ft 2-3 ft
Observations:

DVM BASE
7.3 ppm

Sample Interval 3 - 6 ft

Recovery (ft): 1.8
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 45 3-4 ft 51 4-5 ft 5-6 ft
Observations:

Sample Interval 6 - 9 ft

Recovery (ft): 2.0
Color: Gray BLACK
Moisture: dry moist wet (circle one)
Consistance: firm slightly firm soft (circle one)
P.I.D. Reading (Vppm): 41 6-7 ft 20 7-8 ft 8-9 ft
Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 4-5

Recovery (ft):

Observations:

G(18) Q30(12)

RETENTION RESERVOIR REMEDIATION
FIELD LOG FORM FOR DELISTING SAMPLING

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

Sample #: G(18) Q 30(12) Date: 5/4/93 Time: 9:30 am pm
Samplers and Affiliation: TCG GTH BGC RCF
Total depth (ft): 9.0 8.1

Sample Interval 0 - 3 ft

Recovery (ft): 1.3

9:30

DVM Dose

7.3 ppm

Color: GRAY-BROWN

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 7.7 0-1 ft 1-2 ft 2-3 ft

Observations:

Sample Interval 3 - 6 ft

Recovery (ft): 1.5

Color: GRAY BLACK

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 22 3-4 ft 4-5 ft 5-6 ft

Observations:

Sample Interval 6 - 9 ft

Recovery (ft): 1.5

Color: GRAY BLACK

Moisture: dry moist wet (circle one)

Consistance: firm slightly firm soft (circle one)

P.I.D. Reading (Vppm): 30.5 6-7 ft 7-8 ft 8-9 ft

Observations:

VOC Analysis

Interval selected for VOC analysis (ft): 6-7

Recovery (ft):

Observations:

**USEPA DELISTING PETITION
FOR
KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS**

**APPENDIX A
TO
ADJUSTED STANDARD PETITION**

ATTACHMENT 4

August 2, 1993

Q. Organic Contract Laboratory Program Instrumentation

Gas Chromatography/Mass Spectrometry Department
Semivolatiles Section

<u>INSTRUMENT ID</u>	<u>DESCRIPTION</u>
EXTR3	Extrel ELQ-400 GC/MS equipped with Hewlett-Packard 5890 GC Hewlett-Packard 7673A Autosampler DEC PDP-11 Computer Graph-On GO-235 Terminal 160 Mb CDC Disk Drive Cipher 9-track Magnetic Tape System Printronix P4000 Printer
EXTR4	Extrel ELQ-400 GC/MS equipped with Hewlett-Packard 5890 GC Hewlett-Packard 7673A Autosampler Graph-On GO-235 Terminal 160 Mb CDC Disk Drive Cipher 9-track Magnetic Tape System Printronix P600 Printer
MSD8	Hewlett-Packard 5971A MSD equipped with Hewlett-Packard 5890 Series II GC Hewlett-Packard 7673A Autosampler UNIX Chemstation Model 345 Computer HP6000 660S Disk Drive with DAT HP LaserJet III Printer

Gas Chromatography/Mass Spectrometry DepartmentSemivolatiles Section

<u>INSTRUMENT ID</u>	<u>DESCRIPTION</u>
MSD6	Hewlett-Packard 5971A MSD equipped with Hewlett-Packard 5890 Series II GC Hewlett-Packard 7673A Autosampler UNIX Chemstation Model 345 Computer IIP6000 660S Disk Drive with DAT HP LaserJet III Printer

Gas Chromatography/Mass Spectrometry Department
Volatiles Section

<u>INSTRUMENT ID</u>	<u>DESCRIPTION</u>
MSD5	Hewlett-Packard 5970B MSD equipped with Hewlett-Packard 5890 Series II GC Tekmar LSC-2000 with MCM Tekmar ALS-2016 Tekmar Sample Heaters UNIX Chemstation Model 340C+ Computer HP9144A Tape Drive 304 Mb Winchester Disk Drive Hewlett-Packard LaserJet II Printer
MSD10	Hewlett-Packard 5970B MSD equipped with Hewlett-Packard 5890 Series II GC Tekmar LSC-2000 Tekmar ALS-2016 Tekmar Sample Heaters UNIX Chemstation Model 345 Computer HP6000 660S Disk Drive with DAT IIP 2934A Printer LaserJet II Printer
MSD7	Hewlett-Packard 5970B MSD equipped with Hewlett-Packard 5890 Series II GC Tekmar LSC-2000 with MCM Tekmar ALS-2016 Tekmar Sample Heaters UNIX Chemstation IIP Apollo Series 400 Computer IIP6000 660S Disk Drive with DAT IIP 2934A Printer

Gas Chromatography/Mass Spectrometry Department
Volatiles Section

<u>INSTRUMENT ID</u>	<u>DESCRIPTION</u>
MSD9	Hewlett-Packard 5971 MSD equipped with Hewlett-Packard 5890 Series II GC Tekmar LSC-2000 with MCM Tekmar ALS-2016 Tekmar Sample Heaters UNIX Chemstation HP Apollo Series 400 Computer HP6000 660S Disk Drive with DAT HP Rugged Writer Printer
	Hewlett-Packard Stand Alone Data System equipped with HP Apollo Series 400 Computer HP6000 660S Disk Drive with DAT HP 98754A Monitor Panasonic KX-P4450I Laser Printer

Gas Chromatography Department
Pesticide Section

<u>INSTRUMENT ID</u>	<u>DESCRIPTION</u>
HP5890P1	Hewlett-Packard 5890 Series II GC equipped with 2 Electron-Capture Detectors
HP5890P3	Hewlett-Packard 7673 Dual Tower Autosampler Hewlett-Packard 3396 Series II Integrator Hewlett-Packard 35900 Dual Channel Interface
HP5890P2	Hewlett-Packard 5890 Series II GC equipped with 2 Electron-Capture Detectors
HP5890P4	Hewlett-Packard 7673 Dual Tower Autosampler Hewlett-Packard 3396 Series II Integrator Hewlett-Packard 35900 Dual Channel Interface
HP5890P5	Hewlett-Packard 5890 Series II GC (upgraded) equipped with 2 Electron-Capture Detectors
HP5890P6	Hewlett-Packard 7673 Dual Tower Autosampler Hewlett-Packard 3392A Integrator Hewlett-Packard 35900 Dual Channel Interface
SCREENING	Perkin Elmer Sigma 3B GC equipped with Electron Capture Detector Flame Ionization Detector Hewlett-Packard 3390A Integrator Perkin Elmer AS-300 Autosampler
	Hewlett-Packard 3350A Central Data System equipped with Hewlett-Packard A400 Series Computer Hewlett-Packard Model 7959B Disk Drive Hewlett-Packard Model 9144 16-Track Tape Drive

Sample Preparation Department

<u>INSTRUMENT ID</u>	<u>DESCRIPTION</u>
GPC1	Waters Gel Permeation Chromatograph equipped with Waters Model 715 UltraWISP Autosampler Waters Model 510 Pump Waters Model 484 Tunable Absorbance Detector Waters Fraction Collector Perkin-Elmer LCI-100 Integrator
GPC2	Waters Gel Permeation Chromatograph equipped with Waters Model 715 UltraWISP Autosampler Waters Model 510 Pump Waters Model 486 Tunable Absorbance Detector Waters Fraction Collector Spectra-Physics SP4400 ChromJet Integrator
FID1	Hewlett-Packard 5890 Series II GC Hewlett-Packard 7673 Dual Tower Autosampler 2 Flame Ionization Detectors 2 Hewlett-Packard 3396A Integrators
FID2	Tracor 540 GC equipped with Flame Ionization Detector Hewlett-Packard 3390A Integrator
	9 Tekmar Sonic Disruptors equipped with 3/4" Q Horns

R. Other Laboratory Instrumentation**Gas Chromatography Department**

- 1 Perkin Elmer Sigma 300 GC equipped with
Photo Ionization Detector
700A Hall Electrolytic Conductivity Detector
Tekmar LSC-2 Purge & Trap Unit
Tekmar ALS Autosampler
Spectra-Physics SP-4290 Integrator
Flame-Ionization Detector
- 1 Perkin Elmer Sigma 300 GC equipped with
Photo Ionization Detector
700A Hall Electrolytic Conductivity Detector
Tekmar LSC-2 Purge & Trap Unit
Spectra-Physics SP-4290 Integrator
Tekmar ALS Autosampler
- 1 Perkin Elmer Sigma 2 GC equipped with
Flame Ionization Detector
Nitrogen Phosphorus Detector
Tekmar LSC-2 Purge & Trap Unit
LCI-100 Integrator
- 1 Perkin Elmer Sigma 300 GC equipped with
Electron Capture Detector
Flame Photometric Detector
Perkin Elmer AS-300 Autosampler
Spectra-Physics SP-4290 Integrator
- 1 Tracor 540 GC equipped with
Electron Capture Detector
Flame Photometric Detector
Spectra-Physics SP-4290 Integrator
Tracor 771 Auto Sampler
- 1 Perkin Elmer Sigma 1B GC equipped with
Electron Capture Detector
Connected to Sigma 15 Data System
- 1 Perkin Elmer Sigma 300 GC equipped with
2 Flame Ionization Detectors
Perkin Elmer AS-30 Auto Sampler
Spectra-Physics SP-4400 Chromjet

Gas Chromatography Department

- 1 Perkin Elmer Sigma 300 GC equipped with
 - 2 Flame Ionization Detectors
 - Spectra-Physics SP-4290
- 1 Tracor 540 GC equipped with
 - 2 Flame Ionization Detectors
 - Hewlett-Packard 3396A Integrator
- 1 Tracor 540 GC equipped with
 - Flame Ionization Detector
 - Spectra-Physics SP-4290 Integrator
 - Hall 1000 Electrolytic Conductivity Detector
 - Hewlett-Packard HP 19395A Headspace Sampler
- 1 Perkin Elmer 910 GC equipped with
 - Thermal Conductivity Detector
 - Shimadzu CR3A Integrator
- 1 Hewlett-Packard 5890 GC equipped with
 - 2 Flame Ionization Detectors
 - 7673 Dual Tower Autosampler
 - Hewlett-Packard 3396A Integrator
 - Spectra-Physics SP-4290 Integrator
- 1 Tracor 9000 GC equipped with
 - Photoionization Detector
 - Hall 1000 Electrolytic conductivity Detector
 - Tekmar LSC-2000 Purge and Trap Unit
 - Tekmar ALS-2016 Autosampler
 - Spectra-Physics Chromjet Integrator
- 1 Perkin - Elmer 8500 GC equipped with
 - Flame Ionization Detector
 - Hall 1000 Electrolytic Conductivity Detector
 - HS-101 Automatic Headspace Sampling Unit
 - Spectra-Physics SP-4290 integrator
- 1 Tracor 540 GC equipped with
 - Photo-Ionization Detector
 - Hall 1000 Electrolytic Conductivity Detector
 - Spectra-Physics SP-4290 Integrator
 - Tekmar LSC-2000 Purge-and-Trap Unit
 - Tekmar ALS-2016 Auto Sampler

Gas Chromatography Department

- 2 Hewlett - Packard 5890 Series II GC equipped with
 - 2 Flame-Ionization Detectors
 - 7673A Dual Tower Autosampler
 - 2 Hewlett - Packard 3396A Integrators
- 1 Tracor 540 GC equipped with
 - Photo-Ionization Detector
 - Flame-Ionization Detector
 - Tekmar LSC-2000 Purge-and-Trap Unit
 - Tekmar ALS-2016 Autosampler
 - Spectra-Physics Chromjet Integrator
- 1 Perkin-Elmer 8500 GC equipped with
 - Photo-Ionization Detector
 - Hall 1000 Electrolytic Conductivity Detector
 - HS-101 Automatic Headspace Sampling Unit
 - Spectra-Physics SP-4290 integrator
- 1 Perkin Elmer Sigma 1B GC equipped with
 - 2 Flame Ionization Detectors
 - Thermal Conductivity Detector
 - Hewlett-Packard 3396A Integrator
 - Connected to Sigma 1B Data System
- 2 Spectra-Physics ChromStation Data Systems
- 4 PC Data Systems
- 1 Perkin Elmer Sigma Data Station

Metals Department

- 1 Thermo Jarrell Ash 61E Inductively Coupled Argon Plasma Emission Spectrometer equipped with
IBM PS/2 Model 50Z Data-System

- 1 Perkin-Elmer Plasma II Inductively Coupled Argon Plasma Emission Spectrometer equipped with
Perkin-Elmer Model 7500 Computer System Controller
Perkin-Elmer PR-210 Color Printer
AS-51 Autosampler

- 2 Perkin-Elmer Zeeman 5100 Atomic Absorbtion Spectrophotometer equipped with
EPSON EX-800 Printer
Graphite Furnace
AS-60 Autosampler
EPSON Equity III Computer System
HGA-600 Power Unit

- 1 Thermo Jarrell Ash Video 22 Smith-Hiestje Atomic Absorption Spectrophotometer equipped with
Dual Channel
Furnace Atomizer 188
TJA Autosampler
NEC PowerMate 286/12 Computer
NEC Pinwriter P3200

- 1 Perkin-Elmer Model 5000 Atomic Absorption Spectrophotometer equipped with
Atomic Spectroscopy Data System 10
PR-100 Printer
AS-40 Autosampler
Graphite Furnace
AS-50 Autosampler
Automatic Burner Control

- 1 VG Plasmaquad II Inductively Coupled Argon Plasma Emission Spectrometer/Mass Spectrometer

Inorganics Department

- 2 Lachat QuikChem AC Automated Ion Analyzer equipped with
 - QuikChem AE Software System
 - Robotics Sampler
 - Digital Diluter
 - Sampler Processing Module
 - Chloride - AE Chemistry
 - Nitrate and Nitrite - AE Chemistry
 - Sulfide - AE Chemistry
 - Fluoride - AE Chemistry
- 1 Waters Action Analyzer equipped with
 - Waters 600E System Controller
 - Waters 431 Conductivity Detector
 - Spectra-Physics SP-4400 Chromjet Integrator
- 1 Mitsubishi TOX-10 Organic Halogen Analyzer
- 1 Xertex Dohrmann TOC Analyzer with Sample Conditioning Module
- 1 Waters IIPLC equipped with
 - Waters Lambda MAX Model 481 LC Spectrometer
 - Model 510 Solvent Deliver System
 - Differential Refractometer

Miscellaneous Laboratory Equipment

Milton Roy Spectronic 1201 Spectrometer
IEC HN-SII Centrifuge
Perkin-Elmer No. 1430 Ratio Recording Infrared Spectrometer
Bausch & Lomb Spectronic 21 Spectrometer
YSI Model 32 Conductance Meter
Fisher Model 447 Coulomatic K-F Titrimeter
Fisher Model 805 MP pH/Mv meters (2)
Fisher Model 825 MP pH/Mv meter
ABC Laboratories Gel Permeation Chromatograph(Model Autoprep 1002A)
Market Forge Sterilmatic Autoclave
Millipore/Barnstead 18 Megohm RD/DI Water System
One Topaz Power Conditioner
Uninterruptable Power Supplies (5) - 100 KVA Total
Dohrmann 4-channel Absorption Modules (2)
DEM MDS MDS-81D Microwavé Digestion System
Tekmar TSD-500 Sonic Disruption with dual horns
Glas-Col Model VS5504 8-position Floor Shaker
Eberbach Model 20-240 Variable Speed, Reciprocating shaker
Zymark Model ZW640-3 Turbovap Evaporators (2)

Balances

Fisher Model 2200 Analytical Balance
Fisher XT Analytical Balances (2)
Fisher XL-500 Analytical Balances (2)
Fisher XA Analytical Balance
Fisher XL-400 Analytical Balance
Mettler H54 AR Analytical Balance

Ovens/Furnaces

Fisher ISOTEMP 200 Series 255G Ovens (3)
Fisher ISOTEMP 501 Oven
Fisher ISOTEMP 500 Series Ovens (2)
WILT 24 cu. ft. Muffle Oven
Fisher ISOTEMP 3000 Series Model 350D Oven
Fisher ISOTEMP Model 497 Programmable Ashing Furnace
Fisher ISOTEMP Model 655G Model

Incubators

Fisher Model 307 Low Temperature Incubators (2)
Precision Coliform Incubators Bath
Fisher Model 146 Low Temperature Incubator

Miscellaneous Laboratory EquipmentRefrigerators/Coolers

Kenmore 6 cu. ft. refrigerators (10)
Goldstar 4.8 cu. ft. refrigerators (2)
Excellence 3.0 cu. ft. refrigerator
Pusser-Hubbard 6 cu. ft. Explosion-Proof Refrigerator
Whirlpool 19 cu. ft. refrigerators (2)
Whirlpool 16 cu. ft. refrigerator
Precision Model 813 Explosion-Proof Refrigerator
Welbilt 16 cu. ft. refrigerator
Perlick Stainless Three Door Commercial Cooler
Howard Stainless Single Door Commercial Cooler
W A Brown Walk-In Cooler (7x14)

Hoods

Labconco Protector 4 ft. Fume Hood
Labconco Protector 6 ft. Fume Hoods (3)
Labconco Protector 5 ft. Fume Hood with outside air make-up
Fisher 5 ft. Fume Hoods with outside air make-up
Fisher 6 ft. Fume Hoods with outside air make-up
Labconco Protector 3 ft. Fume Hoods (2)
Curtis Matheson 6 ft. Fume Hood